OPERATING MANUAL

Hausted® Horizon® Series
Multi-Purpose Stretchers – Electric Powered
Models: 4E1 & 4E2 (120 VAC), 4D2 (230 VAC)

(08/30/06) **069389**

A WORD FROM STERIS CORPORATION

This manual contains important information on proper use and maintenance of the Hausted® Horizon® Series Multi-Purpose Stretchers – Electric Powered. **All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual.** These instructions are important to protect the health and safety of personnel operating a Hausted Horizon Series Electric Powered Multi-Purpose Stretcher and should be retained in a conveniently accessible area for quick reference.

Complete instructions for uncrating and connecting utilities, as well as equipment drawings, have been furnished. If missing, contact STERIS for replacement copies, giving the serial number and model numbers of the unit.

STERIS carries a complete line of accessories for use with these stretchers. A STERIS representative will gladly review these with you.

Indications for Use

The Hausted Horizon Series Multi-Purpose Stretchers – Electric Powered are intended for use in patient treatment, transport or recovery.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

You are encouraged to contact STERIS concerning our comprehensive Annual Maintenance Agreements. Under the terms of these agreements, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure equipment performance at peak capability and to help avoid untimely or costly interruptions. STERIS maintains a global staff of well equipped, factory-trained technicians to provide this service, as well as expert repair services. Please contact your STERIS representative for details.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in *SECTION 1* of this manual. Do not operate or service the equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty, could adversely affect sterilization efficacy, could violate national, state, and local regulations, and could jeopardize your insurance coverage.

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Class 1 Equipment

Type B Equipment

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide.

IPX4 (Splash-proof Equipment)

Not suitable for continuous operation (Duty Cycle: 10% six minutes in one hour)

STERIS Corporation, Montgomery, Alabama is an ISO 13485 certified facility.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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LISTING OF WARNINGS AND CAUTIONS

1

The following *Safety Precautions* must be observed when operating or servicing this Hausted® Horizon® Multi-Purpose Stretchers. WARNING indicates the potential for personal injury and CAUTION indicates the potential for damage to equipment. For emphasis, certain *Safety Precautions* are repeated throughout the manual. It is important toreview ALL *Safety Precautions* before operating or servicing the unit.

Strictly following these *Safety Precautions* enhances your ability to safely and effectively utilize the unit and helpsthe customer avoid improper maintenance methods which may damage the unit or render it unsafe. It is importantto understand that these *Safety Precautions* are not exhaustive; customers are encouraged to develop their ownsafety policies and procedures to enhance and compliment these *Safety Precautions.*

WARNING–LACERATION HAZARD:

⚠ When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

WARNINGS – PERSONAL INJURY:

⚠ Do not sit on end – tipping may occur.

⚠ Be sure I.V. rod is inserted completely into socket up to the arrow before applying load.

⚠ To reduce the risk of electric shock, do not remove the cover. Unit is to be service by qualified personnel only.

See *SECTION 3* for the Warnings below:

WARNINGS – CAUTIONS AND PROPER OPERATION:

⚠ The stretchers have a warning label located at the head end stating: Maximum patient weight 226 Kilograms (500 lbs.) This is true for all models except the 4E2DPA or 4D2DPA which states: Maximum patient weight 283 Kilograms (625 lbs.).

⚠ Patient entry, egress and transfer should always be done with the brakes locked.

⚠ The brakes should always be on and patient side rails up when the patient is not in transport.

⚠ The patient pendant has a warning label on it stating: Clip Pendant to rail when not in use - Keep cord clear of moving parts.

⚠ It is important to remember that all electric stretchers are equipped with a built in battery back- up system but: it is recommended that the unit remain plugged in wall receptacle during normal use. The battery backup is recommended for transport and emergency only.

⚠ The Fowler backrest quick drop handle is intended to be used during emergency situations only.

⚠ Be sure rail is locked before leaving patient.

⚠ The lock out controls on the nurse control box controls both the pendant and the control panel.

⚠ To turn electric controls on, plug into wall receptacle. To turn off, remove plug from wall receptacle. The electric powered stretcher do no have a separate on/off switch.

Continued. . . .

⚠ The stretcher has a warning label located on the control box cover stating: To reduce the risk of electrical shock do not remove the cover. Service by qualified personnel only.

⚠ Always disconnect the power source whenever servicing any electric powered stretcher.

⚠ Do not use a sharp instrument to remove fuse, as it may scratch the circuit board.

⚠ The batteries are wired in series, failure to install or rewire the same way may cause the batteries to explode.

WARNING – CAUTIONS AND PROPER OPERATION (Continued):

⚠ Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

UNPACKING INSTRUCTIONS

IMPORTANT: Report any shipping damage immediately! Inform shipper of any damages, and leave carton intact. Leave the stretcher in receiving area until inspection is complete.

Your Hausted® Horizon® Multi-Purpose Stretcher has been carefully packaged at our manufacturing plant to ensure safe shipment to you medical facility. There are several procedures you must follow to put your new stretcher into service. These procedures only take a few minutes to complete and are required to ensure proper operation of the stretcher.

⚠ WARNING – LACERATION HAZARD: When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

Step 1 – Cut the two bands around the shipping carton.

Step 2 – Remove the top half of the carton and cut one side of the bottom half.

Step 3 – Remove the stretcher from the carton. Cut the bands from around the stretcher.

Step 4 – Check to see if all features of the stretcher work properly.

NOTE: You must first plug the unit into a wall socket to check any electric features, as the battery has not been charged (see Step 6).

If all features work properly, go to step 5. If any of the features of the stretcher do not work properly, call STERIS for service.

Step 5 – Clean the stretcher using a mild detergent to remove any dirt accumulated during shipment.

Step 6 – Plug the unit into a wall socket to charge for approximately 8 hours to charge the battery backup.

Step 7 – Place the unit into service.

3.1 Stretcher Specifications

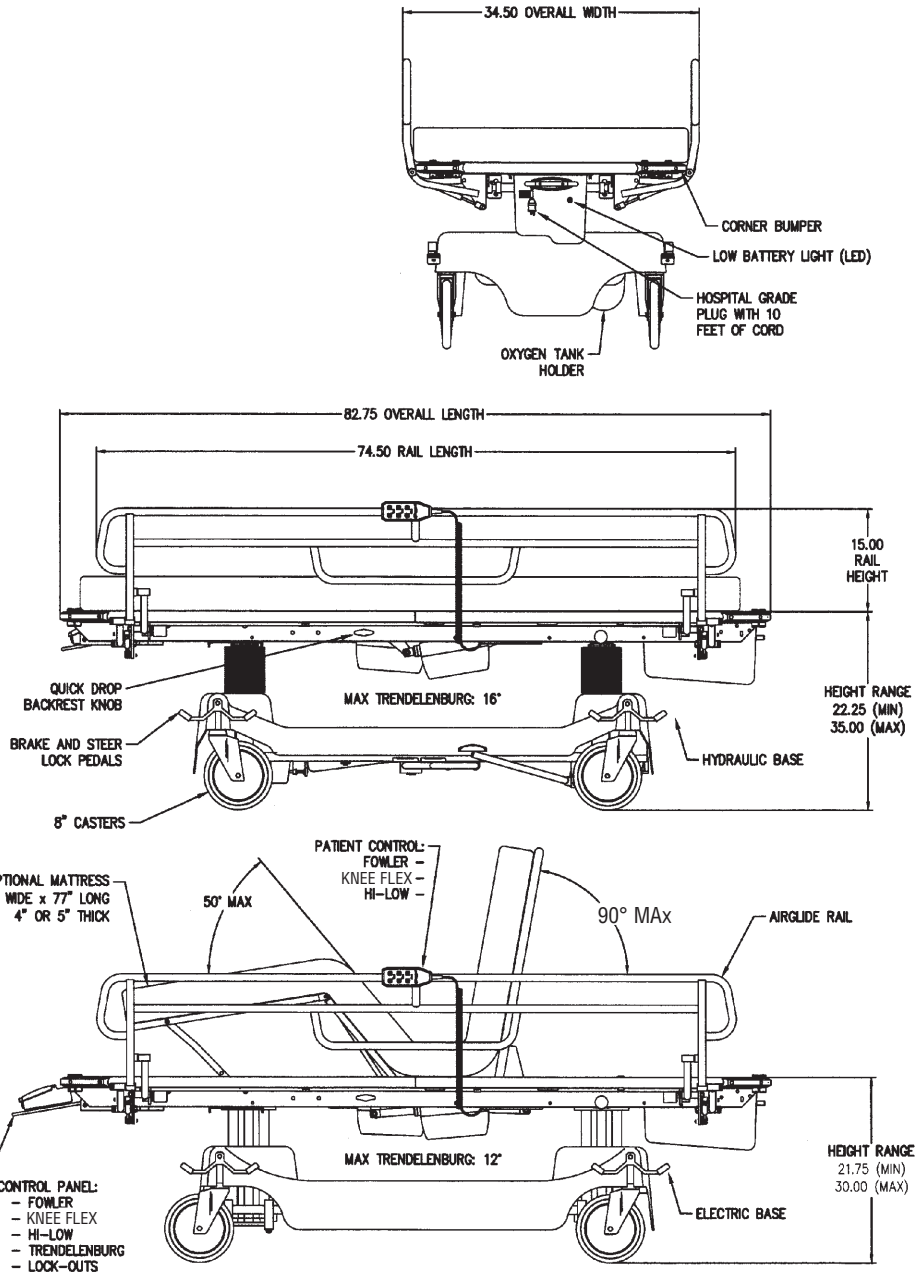
WARNING – PERSONAL INJURY: The stretchers have a warning label located at the head end stating: maximum patient weight 226 Kilograms (500 lbs.). This is true for all models except for the 4E2DPA or 4D2DPA which states: Maximum patient weight 283 Kilograms (625 lbs.).

***NOTE**: All dimensions are specified in inches.*

All dimension are ±.375 inches.

STERIS reserves the right to change specifications without notice.

Stretcher weight: 315 lbs.


34.50 OVERALL WIDTH
CORNER BUMPER
LOW BATTERY LIGHT (LED)
HOSPITAL GRADE PLUG WITH 10 FEET OF CORD
OXYGEN TANK HOLDER
82.75 OVERALL LENGTH
74.50 RAIL LENGTH
15.00 RAIL HEIGHT
QUICK DROP BACKREST KNOB
MAX TRENDELENBURG: 16°
HEIGHT RANGE 22.25 (MIN) 35.00 (MAX)
BRAKE AND STEER LOCK PEDALS
HYDRAULIC BASE
8" CASTERS
PATIENT CONTROL: FOWLER – KNEE FLEX – HI–LOW –
OPTIONAL MATTRESS 32" WIDE x 77" LONG 4" OR 5" THICK
50° MAX
90° MAx
AIRGLIDE RAIL
MAX TRENDELENBURG: 12°
HEIGHT RANGE 21.75 (MIN) 30.00 (MAX)
CONTROL PANEL: – FOWLER – KNEE FLEX – HI–LOW – TRENDELENBURG – LOCK–OUTS
ELECTRIC BASE

DPA Models Specifications Shown

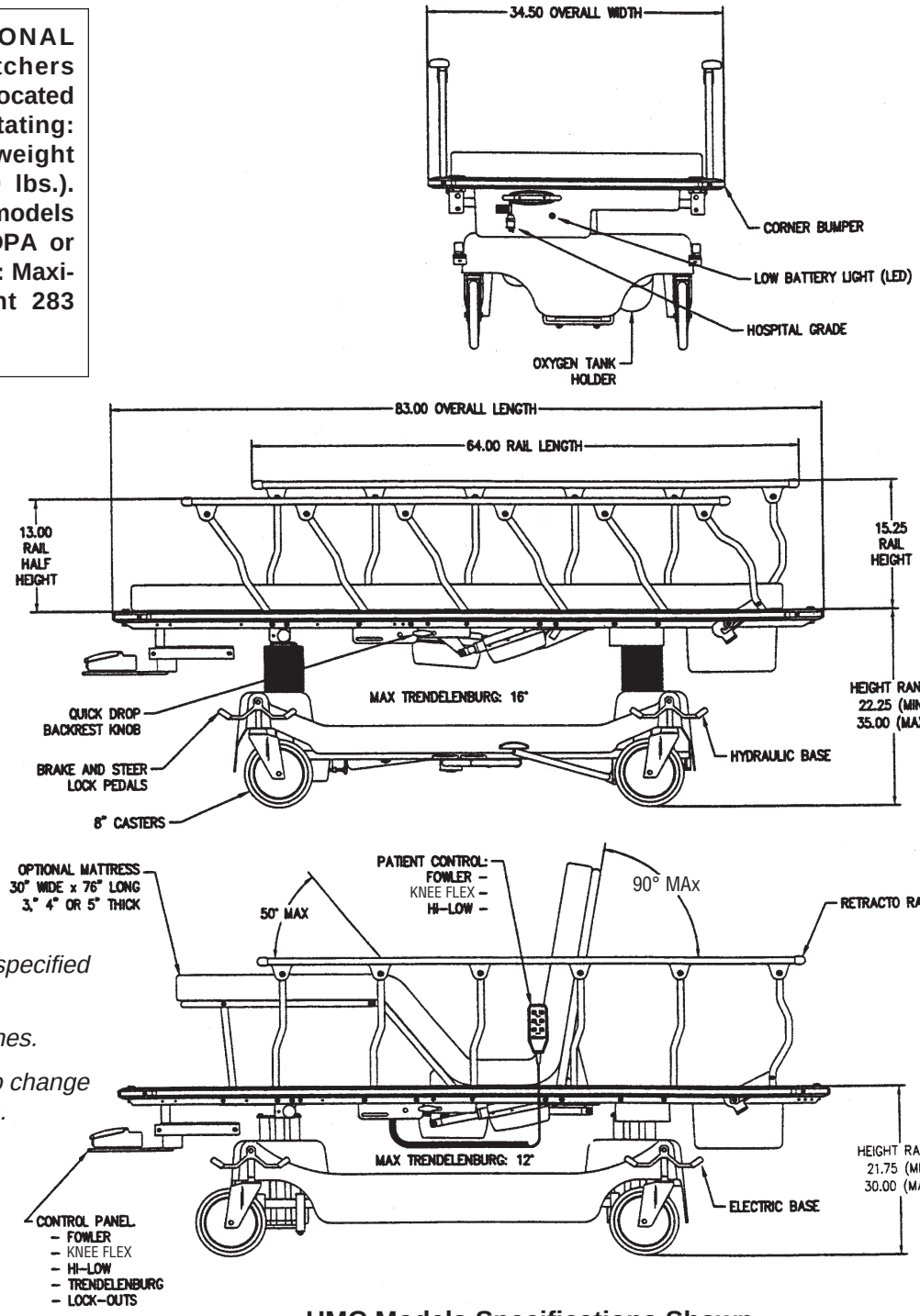
Electrical Specifications
(Applies only to 4E1 & 4E2 Models)

Product Classifiation:	1
Input Voltage:	120V ~, +/-5%, 60Hz
Amperage:	Max. 3.5A
Duty cycle:	10% 6 Min in 1 Hr.
IP Rating:	IPX 4
Grounding Protection:	Type B

Electrical Specifications
(Applies only to 4D2 Model)

Product Classifiation:	1
Input Voltage:	230V ~, +/-10%, 50Hz
Amperage:	Max. 1.9A
Duty cycle:	10% 6 Min in 1 Hr.
IP Rating:	IPX 4
Grounding Protection:	Type B

WARNING – PERSONAL INJURY: The stretchers have a warning label located at the head end stating: maximum patient weight 226 Kilograms (500 lbs.). This is true for all models except for the 4E2DPA or 4D2DPA which state: Maximum patient weight 283 Kilograms (625 lbs.).


34.50 OVERALL WIDTH
CORNER BUMPER
LOW BATTERY LIGHT (LED)
HOSPITAL GRADE
OXYGEN TANK HOLDER
83.00 OVERALL LENGTH
64.00 RAIL LENGTH
13.00 RAIL HALF HEIGHT
15.25 RAIL HEIGHT
MAX TRENDELENBURG: 16°
QUICK DROP BACKREST KNOB
BRAKE AND STEER LOCK PEDALS
8" CASTERS
HYDRAULIC BASE
HEIGHT RANGE 22.25 (MIN) 35.00 (MAX)
OPTIONAL MATTRESS 30" WIDE x 76" LONG 3," 4" OR 5" THICK
PATIENT CONTROL: FOWLER – KNEE FLEX – HI–LOW –
50° MAX
90° MAx
RETRACTO RAIL
MAX TRENDELENBURG: 12°
ELECTRIC BASE
HEIGHT RANGE 21.75 (MIN) 30.00 (MAX)
CONTROL PANEL – FOWLER – KNEE FLEX – HI–LOW – TRENDELENBURG – LOCK–OUTS

HMC Models Specifications Shown

Model 4E1HMC (hydraulic base) maximum Patient weight: 500 lbs.

Model 4E2HMC (electric base) maximum Patient weight: 500 lbs.

***NOTE**: All dimensions are specified in inches.*

All dimension are ±.375 inches.

STERIS reserves the right to change specifications without notice.

Stretcher weight: 315 lbs.

Electrical Specifications
(Applies only to 4E1 & 4E2 Models)

Product Classifiation:	1
Input Voltage:	120V ~, +/-5%, 60Hz
Amperage:	Max. 3.5A
Duty cycle:	10% 6 Min in 1 Hr.
IP Rating:	IPX 4
Grounding Protection:	Type B

Electrical Specifications
(Applies only to 4D2 Model)

Product Classifiation:	1
Input Voltage:	230V ~, +/-10%, 50Hz
Amperage:	Max. 1.9A
Duty cycle:	10% 6 Min in 1 Hr.
IP Rating:	IPX 4
Grounding Protection:	Type B

3.2 Features, Warnings and Proper Operation

WARNINGS – CAUTIONS AND PROPER OPERATION:

A– The stretchers have a warning label located at the head end stating: maximum patient weight 226 Kilograms (500 lbs.). This is true for all models except the 4E2DPAor 4D2DPA which states: Maximum patient weight 283 Kilograms (625 lbs.).

B– Patient entery, egress and transfer should always be done with the brakes locked.

C– The brakes should always be on and patient side rails up when the patient is not in trasnport.

D– The patient pendant has a warning label on it stating: Clip Pendant to rail when not in use – Keep cord clear of moving parts.

E– It is important to remember that all electric stretchers are equipped with a built in battery backup system but: it is recommended that the unit remain plugged in wall receptacle during normal use. The battery backup is recommended for transport and emergency only.

F– The Fowler backrest quick drop handle is intended to be used during emergency situations only.

G– Be sure rail is locked before leaving patient.

H– The lock out controls on the nurse control box controls both the pendant and the control panel.

I– Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

WARNINGS RELATED TO SERVICE & REPAIR:

J– To turn electric controls on, plug into wall receptacle, to turn off, remove plug from wall receptacle, the electric powered stretcher do no have a separate on/off switch.

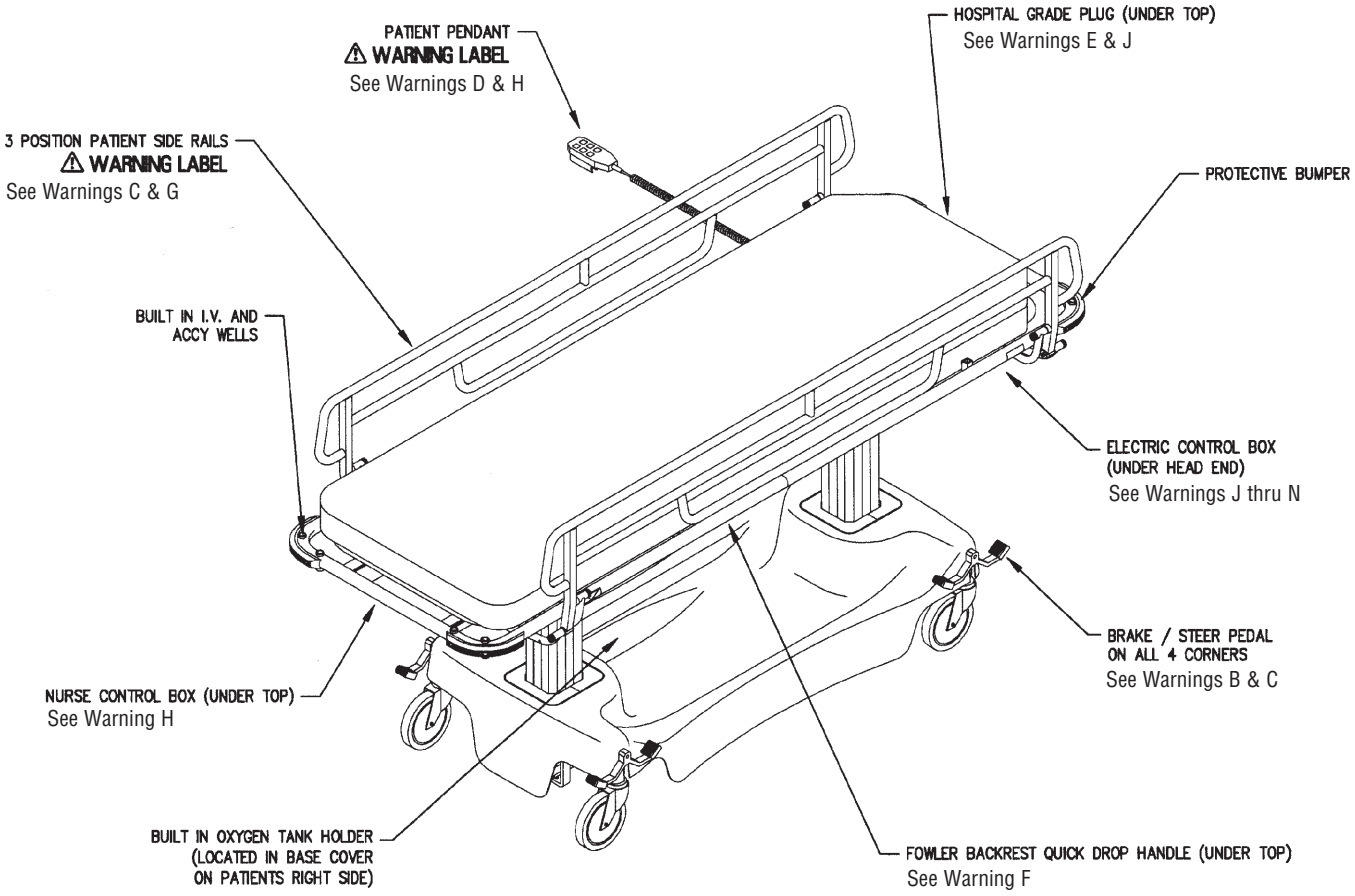
K– The stretcher has a warning label located on the control box cover stating: To reduce the risk of electrical shock don not remove the cover. Service by qualified personnel only.

L– Always disconnect the power source whenever servicing any electric powered stretcher.

M– Do not use a sharp instrument to remove fuse, as it may scratch the circuit board.

N– The batteries are wired in series, failure to install or rewire the same way may cause the batteries to explode.

***Important Note**: The picture shown is of the "DPA" models, all cautions and warnings also apply to the "HMC" models.*


PATIENT PENDANT
⚠ WARNING LABEL
See Warnings D & H
HOSPITAL GRADE PLUG (UNDER TOP)
See Warnings E & J
3 POSITION PATIENT SIDE RAILS
⚠ WARNING LABEL
See Warnings C & G
PROTECTIVE BUMPER
BUILT IN I.V. AND ACCY WELLS
ELECTRIC CONTROL BOX (UNDER HEAD END)
See Warnings J thru N
BRAKE / STEER PEDAL ON ALL 4 CORNERS
See Warnings B & C
NURSE CONTROL BOX (UNDER TOP)
See Warning H
BUILT IN OXYGEN TANK HOLDER (LOCATED IN BASE COVER ON PATIENTS RIGHT SIDE)
FOWLER BACKREST QUICK DROP HANDLE (UNDER TOP)
See Warning F

3.3 Braking and Steering Operation

3.3.1 Applying the Brakes

Figure 3-1.

The four wheel central braking system is activated by depressing the red pedal at any of the four corners of the unit (Figure 3-1). To fully engage the brakes, the pedal should be pressed to approximately 45°. All four caster wheels should be locked from swiveling and rotating.

3.3.2 Releasing the Brakes

Figure 3-2.

Depress the green pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely.

NOTE: Brakes should always be activated when unit is not in transport.

3.3.3 Applying the Steering Lock/Fifth Wheel

WARNING – PROPER OPERATION: Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

From any corner of the stretcher, depress the green pedal downward into locked position (Figure 3-3). Push the stretcher forward. Either one caster at the foot end will lock into a non-swivel mode, or the optional fifth wheel will lower and apply pressure to the floor. This allows straight steering by the attendant.

Figure 3-3.

3.3.4 Releasing the Steering Lock/Fifth Wheel

Depress the red pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely, and/or the optional fifth wheel will retract.

3.4 Litter Top Height Adjustment (4E1 Models Only)

3.4.1 Height Adjustment

Press the pump pedal to the floor (Figure 3-4), then release. Repeat this process until desired height is obtained. Use smooth strokes on the pedal to ensure patient comfort.

Figure 3-4

3.4.2 Lowering Litter Top

Press down on the two release pedals at the same time (Figure 3-5) until desired height is obtained.

NOTE: *Do not stand on release pedals.*

Figure 3-5

3.4.3 Trendelenburg Adjustment

Place the unit at maximum height, see *Height Adjustment*. Press down on the release pedal nearest the head end (Figure 3-6) until desired position is obtained. Then remove pressure.

Figure 3-6

3.4.4 Reverse Trendelenburg Adjustment

Place the unit at maximum height, see *Height Adjustment*. Press down on the release pedal nearest the foot end (Figure 3-7) until desired position is obtained. Then remove pressure.

Figure 3-7

3.5 Electric Control Locations

3.5.1 Nurses Control Panel

To access the nurses control panel, pull out on the handle located at the foot end of the unit, under the top (Figure 3-8).

Figure 3-8.

3.5.2 Patient Pendant

The patient Pendant has an adjustable location and may be located on either side of the rail (Figure 3-9).

⚠ CAUTION: Clip pendant to rail when not in use. Keep cord clear of moving parts.

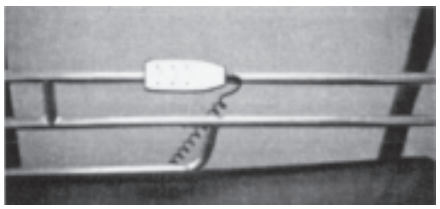


Figure 3-9.

3.5.3 Plug Locations

The hospital grade plug is located under the head end of top section (Figure 3-10). Unwrap cord from bracket and plug into the nearest wall receptacle.

***Important**: It is recommended that unit remain plugged in wall receptacle during normal use. Battery back-up is recommended for transport and emergency only.*

Figure 3-10.

3.5.4 Emergency Electric Backrest Override

The unit is equipped with a Fowler backrest quick drop handle located under the litter top at stretcher mid section. (See the stretcher specification page). This option is only to be used in an emergency situation. The label states: *Emergency Drop Backrest Pull Handle to Activate*.

3.5.5 Low Battery Light (L.E.D.)

The stretchers are equipped with a low battery indictor light, located on the controller cover under the head end of the stretcher (Figure 3-11). When a button on the pendant is pressed, and the L.E.D. light comes on, it indicates that the backup batteries require charging. Plug the unit into a wall receptacle.

Figure 3-11.

3.6 Litter Top Adjustment

CAUTION: The lock-out controls both the pendant and the control panel.

3.6.1 Height Adjustment (4E2 & 4D2 Models Only)

Lockout – *Unlocking*: Turn the knob located under the third row of buttons on the control panel, clockwise approximately 90° (Figure 3-12). *Locking*: Turn the knob under the third row of buttons, counter-clockwise approximately 90°.

***NOTE**: This lockout knob also controls the trendelenburg functions.*

Nurse: Press either of the up or down arrows located on the third row of buttons on the control panel (Figure 3-13). Hold in the button until the desired height is achieved.

Patient: Press either of the up or down arrows located on the third row of buttons on the patient pendant (Figure 3-14). Hold the button in until desired height is achieved.

Figure 3-12.

Figure 3-13.

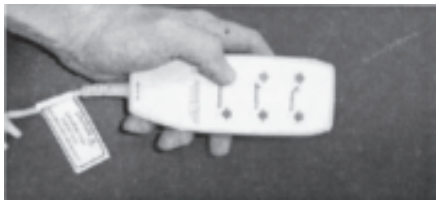


Figure 3-14.

3.6.2 Fowler Adjustment

Lockout – *Unlocking*: Turn the knob located under the first row of buttons on the control panel, clockwise approximately 90° (Figure 3-15). *Locking*: Turn the knob under the first row of buttons, counter-clockwise approximately 90°.

Nurse: Press either of the up or down arrows located on the first row of buttons on the control panel (Figure 3-16). Hold in the button until desired incline is achieved.

NOTE: This unit is equipped with a Fowler backrest quick drop handle located on either side of the stretcher near the foot section (see stretcher specification page). This option is only to be used during an emergency situation.

Patient: Press either of the up or down arrows located on the first row of buttons on the patient pendant (Figure 3-17). Hold in the button until desired incline is achieved.

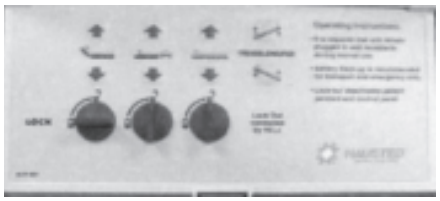


Figure 3-15.

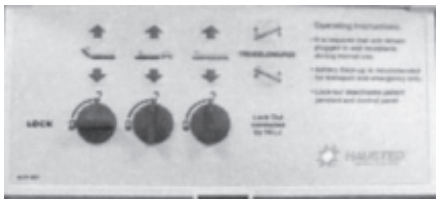


Figure 3-16.

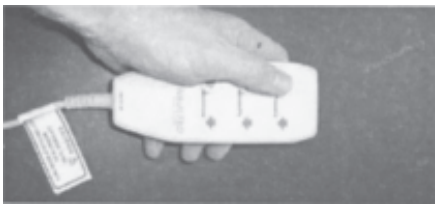


Figure 3-17.

3.6.3 Quick Drop Activation (Fowler Backrest)

The stretcher is equipped with manual override function for the Fowler backrest. This option should only be used in an emergency situation. To activate the quick drop, pull out on the red "T" handle (Figure 3-18) located under the litter top on either side of the patient, near the middle of the unit.

Figure 3-18.

3.6.4 Knee Flex Adjustment

Lockout – *Unlocking*: Turn the knob located under the second row of buttons on control panel, clockwise approximately 90° (Figure 3-19). *Locking*: Turn the knob under the second row of buttons, counter-clockwise approximately 90°.

Nurse: Press either of the up or down arrows located on the second row of buttons on the control panel (Figure 3-20). Hold in the button until desired height is achieved.

Patient: Press either of the up or down arrows located on the first row of buttons on the patient pendant (Figure 3-21). Hold in the button until desired height is achieved.

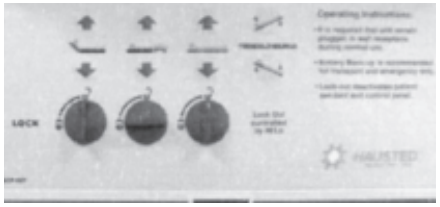


Figure 3-19.

Figure 3-20.

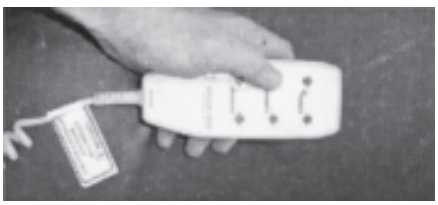


Figure 3-21.

3.6.5 Trendelenburg Adjustment (4E2 & 4D2 Models only)

Lockout: See *Lockout* in the Section 3.6.1 *Height Adjustment Instructions*.

Nurse: Trendelenburg: Press the top button on the fourth row of buttons on the control panel (Figure 3-22). Hold in the button until desired angle is achieved.

Rev-Trendelenburg: Press the bottom button on the fourth row of buttons on the control panel (Figure 3-23). Hold in the button until the desired angle is achieved.

Patient: There is no Trendelenburg functions on the pendant.

Figure 3-22.

Figure 3-23.

3.7 Airglide Rail Operation

WARNING – PERSONAL INJURY HAZARD: Be sure rail is locked before leaving patient.

3.7.1. Raising the Rail

Grasp rail top tube from under litter top firmly, then pull up (Figure 3-24) until rail locks into full up position.

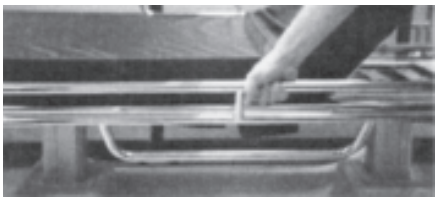


Figure 3-24.

3.7.2 Lowering the Rail

Firmly grasp top of rail, pull out on red tab, located under litter top at the foot or head end (Figure 3-25). Lower side rail completely under litter top.

Figure 3-25.

3.8 Retracto Rail Operation

WARNING – PERSONAL INJURY HAZARD: Be sure rail is locked before leaving patient.

3.8.1 Raising the Rail

Grasp the rail top cap in the middle of the rail (Figure 3-27) and lift.

Figure 3-27.

3.8.2 Half Height

Grasp the rail, lift up on the red trigger under the liter top (Figure 3-28) while lowering the rail. When rail starts to move down release trigger. Lower rail until it locks into half height position.

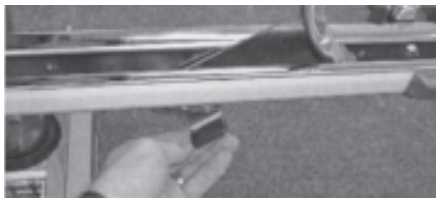


Figure 3-28.

3.8.3 Lowering the Rail

Grasp the rail, lift up on the red trigger under the top (Figure 3-28). While lowering the rail, hold up on the trigger until the rail is all the way down.

3.9 Push Handle Operation (Optional Accessory)

3.9.1 Raising the Push Handles

Hinge the push handle up (Figure 3-30) until it stops. Slide the push handle down into the socket until it stops. Repeat process for handle on the other side. (Figure 3-31).

Figure 3-29.

Figure 3-30.

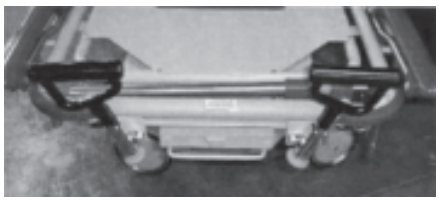


Figure 3-31.

3.9.2 Lowering the Push Handles

Lift up on push handle and rotate (Figure 3-30) until it is in the down position (Figure 3-29). Repeat process for the other side.

3.10 Permanently Mounted IV Rod Operation

WARNING – PERSONAL INJURY HAZARD: Be sure I.V. rod is inserted completely into socket up to the arrow before applying and load.

3.10.1 Putting I.V. Rod in Up Position

Grasp I.V. rod and hinge upward until it stops (Figure 3-32). Push down on I.V. rod until it slides firmly into the socket.

Figure 3-32.

3.10.2 Extending I.V. Rod

Lift up on top of I.V. rod (Figure 3-33) until desired length is achieved.

Figure 3-33.

3.10.3 Retracting I.V. Rod

Press button located in the gray housing (Figure 3-34) and lower I.V. Rod until desired height is achieved. Repeat process with second housing as required.

Figure 3-34.

4.1 Electric Powered Stretchers

WARNING: To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

If	Then
One motor or one column does not move but all others are operating correctly.	Step1: Check all motor and column plug connections at the controller box. Step 2: If a column does not move: Check the the connection at the column. Step 3: Plug a connector from the faulty component into a different socket: If the component does not run: – Replace that component. If the component does run: – Test pendant by plugging a functioning component into the non-functioning socket on the controller. If this component does not run, replace the pendant. If replacing the pendant does not fix the problem, then the controller must be replaced.
Nothing moves	Step 1: Plug unit into a mains supply wall receptacle, observe the pilot light on the controller: If the pilot light is off: - Replace the controller If the pilot light is on: 1. Check the nurse control plug connection at the controller. 2. Check the pendant control plug connection at the controller.
The unit runs when plugged into wall receptacle, but does not run on the battery backup.	Step 1: Plug unit into a wall receptacle overnight. If the batteries do not hold a charge, replace the batteries.

4.2 Battery Replacement Instructions

WARNING – SHOCK HAZARD: To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

WARNING – PERSONAL INJURY HAZARD: The batteries are wired in series, failure to connect the same way can cause the batteries to explode.

The batteries are the only field serviceable components - do not attempt to repair the circuit boards.	
Battery replacement	Step 1: Remove the controller. Step 2: Remove the 4 screws from the right half, located on top of the controller. Step 3: Replace (both) batteries with 'YUSHA' #NP 1.2-12, 12 volt, 1.2 Ah batteries. (Steris P/N 075759 – 2 required. Step 4: Be sure battery connector in in place on left side of batteries. Step 5: Replace cover.

Procedure	Schedule	Material
Lubricate all moving and sliding parts and hinge points.	3 Months	Lubricating oil, light-duty grease, wax stick lubricant.
⚠ Never Lubricate Gas Spring, Motor and Mech-Lock Shafts ⚠		
Inspect all fasteners to ensure proper fit, position and tightness (including nuts, bolts, etc.).	3 Months	Proper size wrench and screw-driver.
Inspect all surfaces and remove any user developed sharp or burred areas. Apply touch-up where required.	3 Months	Metal File, proper color paint (specify color when ordering).

5.1 Recommended Cleaning Instructions

***NOTE**: Steam cleaning and pressure washing of stretcher is not recommended and can void warranty.*

Component	Cleaning Procedure	Schedule	Cleaning Agent	Special Notes
Pads	Wipe with Damp Cloth To remove any foreign materials	After Each Use	Routine Hospital Grade Disinfectants, Soap and Water	• Use only medium strength cleaners • Do not steam clean or pressure wash
Electric Components	Wipe with damp cloth to remove any foreign materials	After each use	Routine hospital grade disinfectants, soap and water	• Use only medium strength cleaners • Do not steam clean or pressure wash • Be sure any wet surface on electic components is dry before pulgging into wall receptacle
Mechanical Stretcher Components	Wipe with damp cloth to remove any foreign materials	After each use	Routine hospital grade disinfectants, soap and water	• Lubricate pivot points after cleaning
Mechanical Accessories	Wipe with damp cloth to remove any foreign materials	After each use	Routine hospital grade disinfectants, soap and water	• Lubricate pivot points after cleaning

For more details information, please contact:

STERIS Corporation at:

1-800-333-8828

I.V. Poles

Universal

000E17-00	Stainless steel 42" long fixed height I.V. rod - removable
000018-00	Stainless steel 27" to 54" long telescoping I. V. rod
128770-00	000018 - telescoping I.V. rod with cable attachment
126740-00	Infusion pump I.V. rod 1 1/8" dia - 42" long - removable
IVSTOW-00	Mobile I.V. stand attachment

Airglide Rail (D) Style Tops

066AGR-00	Mounted stainless telescoping I.V. rod - patient right
IVSTOW-00	Mobile I.V. stand attachment

Retracto Rail (H) Style Tops

066RR0-00	Mounted stainless telescoping I.V. rod - head end
065897-00	Mobile I.V. stand attachment

Pads and Matresses

Airglide Rail (D) Style Tops

068965-60	Pressurecare - 4" x 32" x 77" conductive foam
069383-60	Enhanced pressurecare - 5" x 32" x 77" conductive foam
069230-00	Slick patient transfer mattress system

Retracto Rail (H) Style Tops

031661-60	3" x 29 1/2 " x 76" conductive foam
061894-60	Pressurecare - 4" x 29 1/2" x 76" cond. foam - E & G tops
068922-60	Enhanced pressurecare - 5" x 29 1/2" x 76" -E & G tops
069206-00	Slick patient transfer mattress system

Head and Foot Boards

Airglide Rail (D) Style Tops

000W6B-00	Head and foot board - stationary
0CRW6B-00	Head and foot board - stationary with chart rack
000W7B-00	Extension head and foot board
0CRW7B-00	Extension head and foot board - with chart rack

X-ray Accessories

Retracto Rail (H) Style Tops

000054-00	Lateral x-ray cassette holder- holds up to 14" x 17"

Monitor Shelves

Airglide Rail (D) Style Tops

069299-00	Extension footboard/monitor shelf w/chart rack

Retracto Rail (H) Style tops

00WN45-00	Monitor shelf - removable - folding
068846-00	Extension footboard/monitor shelf w/chart rack

Miscellaneous

Universal

000012-00	Restraint straps with buckle
000014-00	Restraint straps with velcro
128450-00	Vertical oxygen tank holder
065366-00	Universal patient tray
069257-00	Paper roll holder

Airglide Rail (D) Style Tops

075665-00	Self storing push handles
065180-00	Armboard - height adjustable - 1" pad included
00C16H-00	Heel stirrups
00C16L-00	Knee crutch stirrups
00L16M-00	Mounting adaptor clamps for heel stirrups/leg holders
067741-00	Side rail pads
068577-00	Burgundy pin striping for departmental identification
068578-00	Teal pin striping for departmental identification
068585-00	Plum pin striping for departmental identification

Retracto Rail (H) Style Tops

075656-00	Self storing push handles
133171-00	Under fowler utility tray
076334-00	Surgical armboard – pad & adapter included
00N16A-00	Heel stirrups
00N16C-00	Knee crutch stirrups
00N16E-00	Heel stirrups and leg holders with mounting adapter clamps
075626-00	Side rail pads
128840-00	Drainage bag hooks
131934-00	Burgundy bumpers and pin striping for department identification
131935-00	Teal bumpers and pin striping for department identification
131936-00	Plum bumper and pin striping for department identification

Fifth Wheels

4E2 Base (Electric)

075798-00	Fifth wheel, electric horizon auto track

4E1 (Hydraulic)

075797-00	Fifth wheel, horizon auto track

It is recommended that only STERIS approved accessories be used with this device.

To order accessories or for more detailed information on accessories please contact STERIS At: 1-800-428-7833

RECOMMENDED REPLACEMENT PARTS

7

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*

Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figures 7-9, 7-10, 7-18 & 7-19.

For detailed label locations, see Figures 7-11 & 7-20.

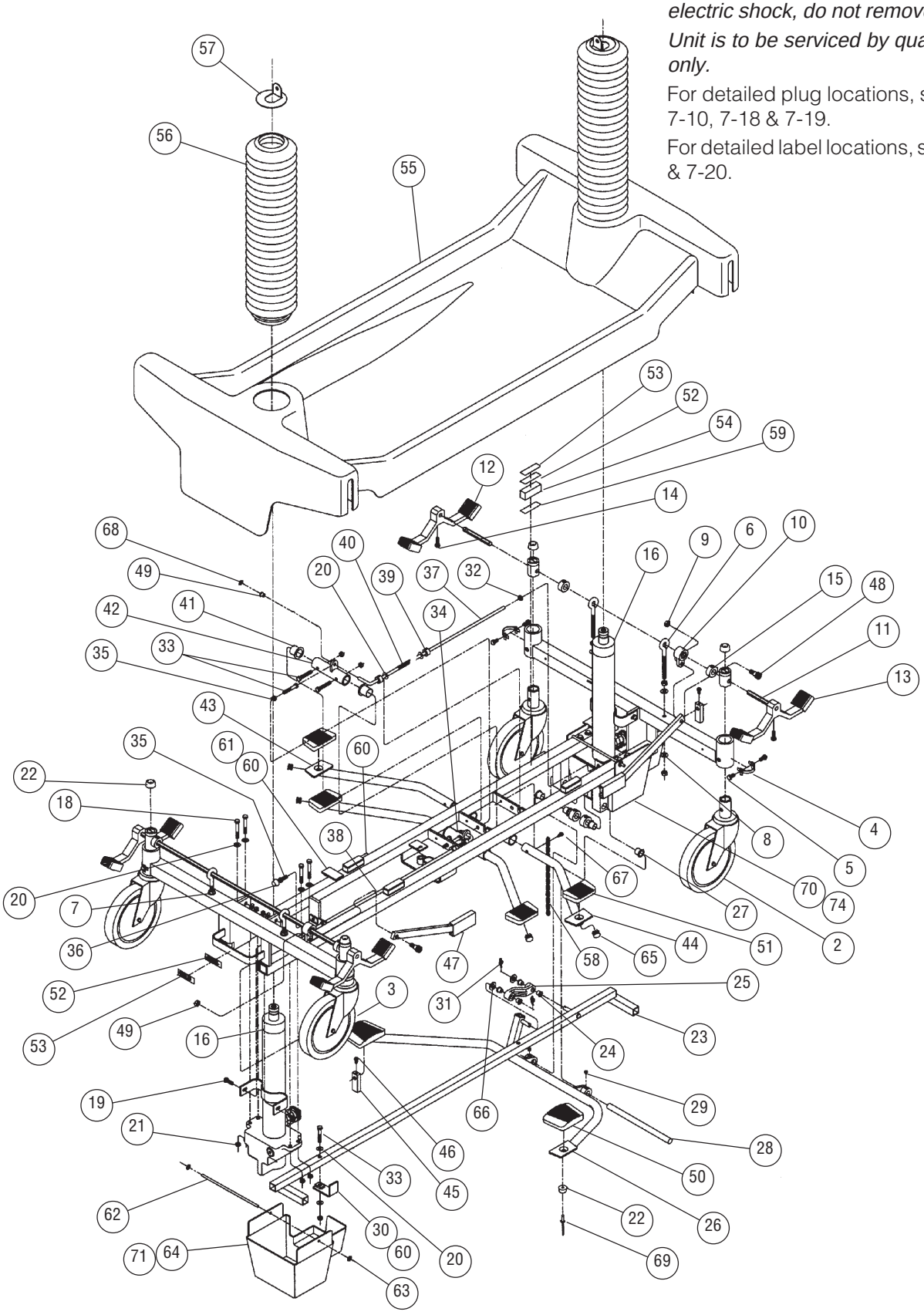


Figure 7-1. 4E1 Hydraulic Base Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-1-			**4E1 HYDRAULIC BASE ASSEMBLY**	**X**
1	068331		ASSEMBLY, Base Frame	1
2	062672		CASTER, Tente, Brake	3
3	062671		CASTER, Tente, Swivel Lock	1
4	062659		PLATE, Caster Bolt Lock	4
5	062685		SCREW, Hex Head Cap, M8 x 1.25 x 12.00" Long	8
6	065041		BOLT, Eye, 5/16-18	4
7	031058		NUT, Free Thread, 5/16"	4
8	031080		WASHER, Flat, 5/16"	8
9	031057		NUT, Lock, 5/16-18	6
10	062684		LEVER, Cam	2
11	068551		ROD, Horizon Hex Brake	2
12	066507		ASSEMBLY, Left Brake Pedal	2
13	066508		ASSEMBLY, Right Brake Pedal	2
14	031101		SCREW, Hex Cap w/Nylon, 1/4-20 x 3/4" Long	4
15	011422		COLLAR, Worm	6
16	068207		JACK, Hydraulic, Foot End	1
17	068209		JACK, Hydraulic, Head End	1
18	031412		SCREW, Hex Head Cap, 1/4-20 x 1-3/4" Long	8
19	031137		SCREW, Hex Head Cap, 1/4-20 x 3/4" Long	4
20	031076		WASHER, Flat, USS, 1/4"	18
21	031055		NUT, Lock, 1/4-20	17
22	031156		BUMPER	6
23	068368		ASSEMBLY, Jack Link	1
24	068455		NYLINER, 5/16"	4
25	068371		CONNECTOR, Pedal to Link	1
26	068345		ASSEMBLY, Pump Pedal	1
27	068126		NYLINER, 1/2"	4
28	068379		BAR, Pump Pedal Hinge	1
29	031102		SCREW, Knurled Point Set, 1/4-20 x 1/4" Long	2
30	068355		GUIDE, Jack Link Vertical	1
31	068417		CUP, Rue, 5/16"	2
32	068418		NYLINER, Type 7, 1/4"	2
33	031006		SCREW, Hex Head Cap, 1/4-20 x 1-1/2" Long	6
34	031321		SCREW, Hex Head Cap, 1/4-20 x 2" Long	1
35	031054		NUT, Free Thread, 1/4-20	3
36	066705		BUMPER, Stop	1
37	068374		LINK, Head End Release	1
38	068375		LINK, Foot End Release	1
39	068378		COLLAR, Stop	4
40	068128		SPRING, Long, 1-17/32"	2
41	051308		NYLINER, 3/4"	4
42	068353		CONNECTOR, Release Pedal	2
43	068350		ASSEMBLY, Release Pedal, Left	2
44	068351		ASSEMBLY, Release Pedal, Right	2
45	068377		PLATE, Push	2
46	068890		SCREW, Hex Head Cap, #10-32 x 1/2" Long	2
47	068329		LINK, Brake Rod	1
48	065807		BOLT, Shoulder, 3/8" x 3/8"	2
49	068530		WASHER, Nylon Shoulder	2
50	068343		PAD, Pump Pedal	2
51	061164		PAD, Release Pedal	4
52	068513		HOOK, Velcro, 2.0" x 5/8"	6

continued on next page

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
53	068512		PILE, Velcro, 2.0" x 5/8"	6
54	068376		SPACER, Cover	4
55	068208		BASE, Top Cover-Horizon	1
56	068550		BELLOWS, Gray, Round	2
57	066583		PLATE, Bellows Attachment	2
58	062378		CHAIN, Anti-Static	1
59	068475		TAPE, Double Sided, 2.0" x 1/2"	4
60	068380		TAPE, Polyethylene, 3/4" x 1 1/2"	4
61	068381		TAPE, Polyethylene, 1/2" x 3/4"	3
62	069282		ROD, Bottom Cover	2
63	065611		NUT, Push, 3/16"	4
64	065114		FOAM, Bottom Cover	2
65	055620		PLUG, Hole	4
66	035115		WASHER, Nylon, 5/16"	2
67	031416		SCREW, Self Tapping, #10-24 x 1/2" Long	1
68	031371		GRIPRING, 1/4"	2
69	000794		RIVET, Pop	2
70	069281		COVER, Horizon Bottom, Head End	1
71	069280		COVER, Horizon Bottom, Foot End	1

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*

Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figures 7-9, 7-10, 7-18 & 7-19.

For detailed label locations, see Figures 7-11 & 7-20.

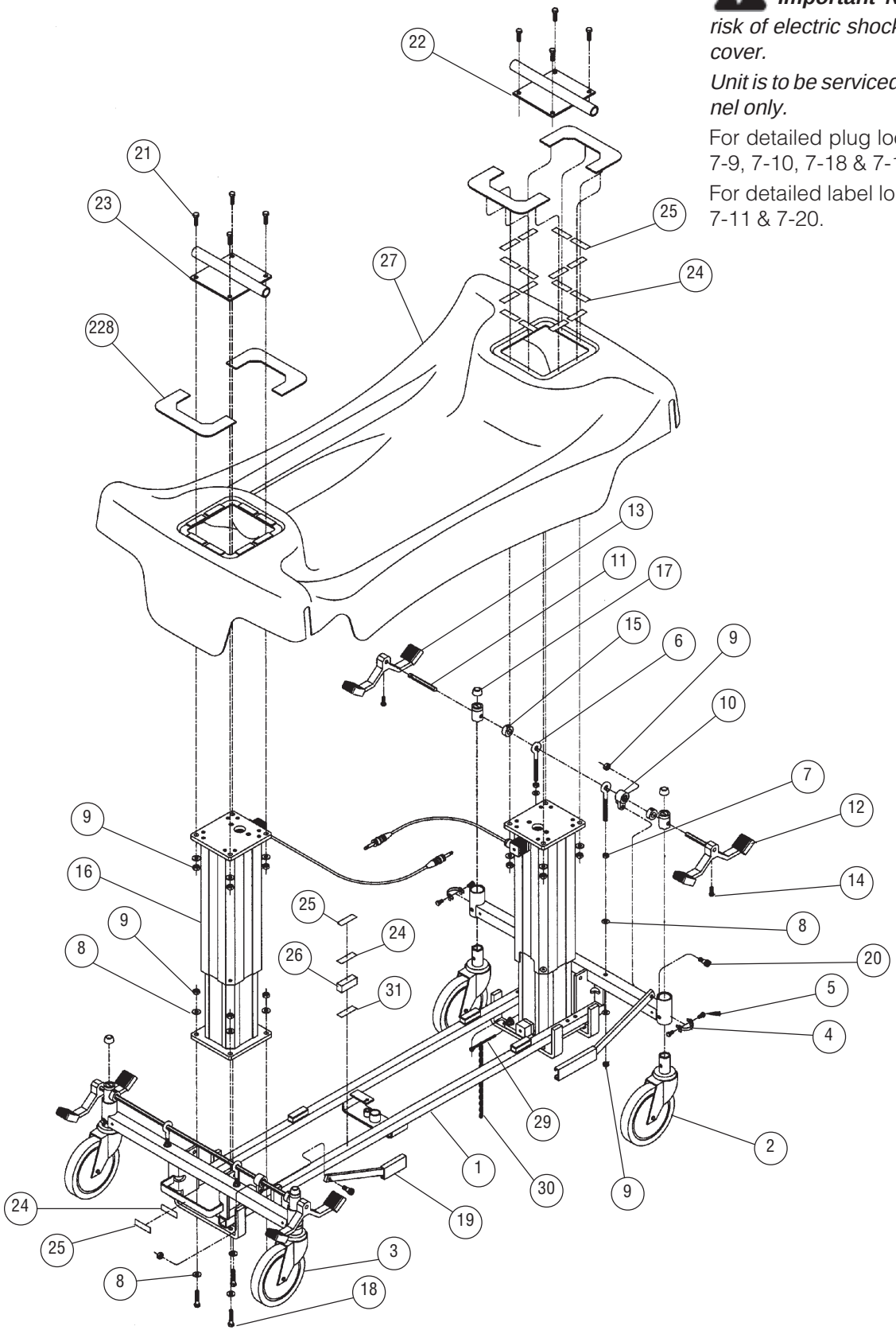
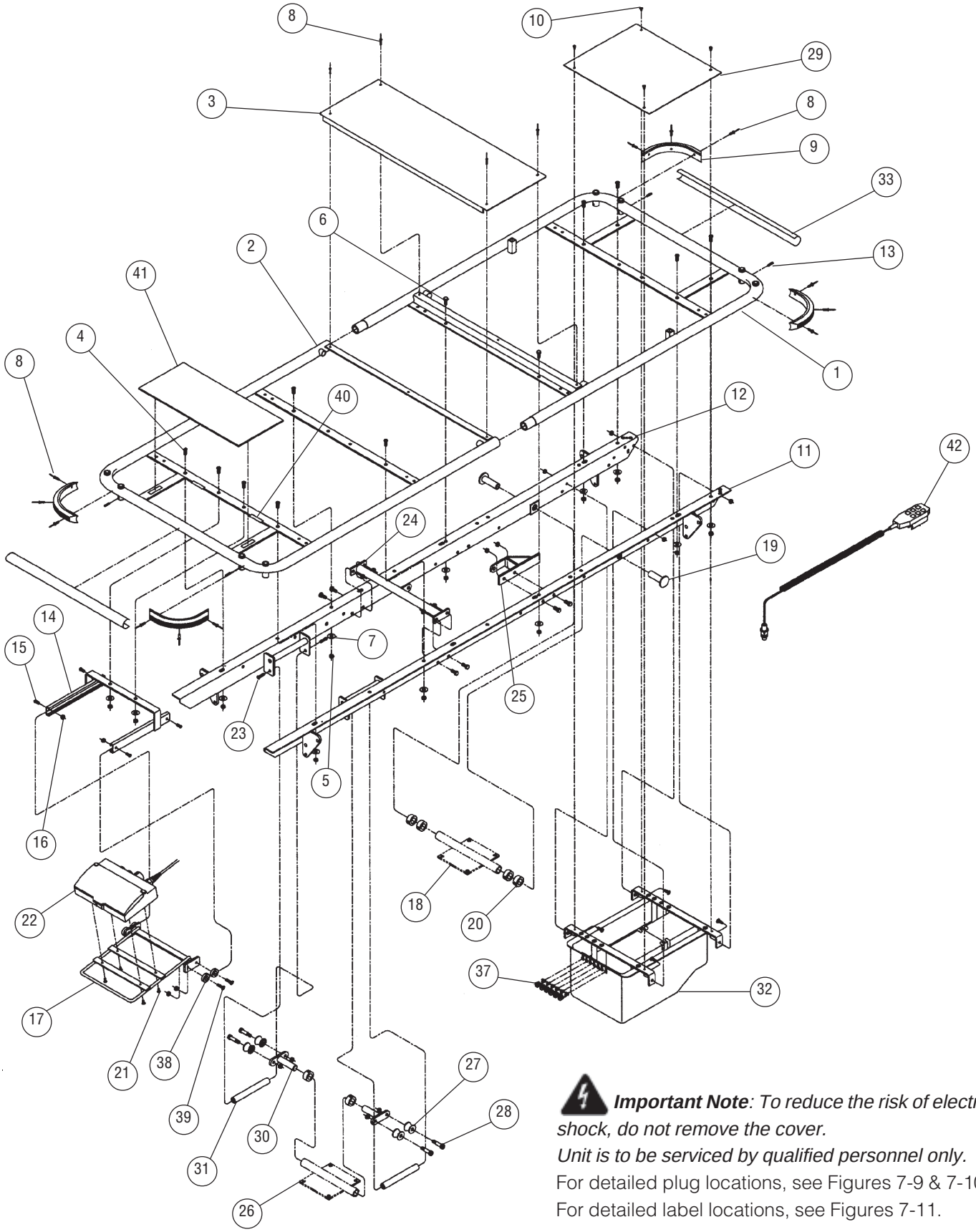


Figure 7-2. 4E2/4D2 Electric Base Assembly

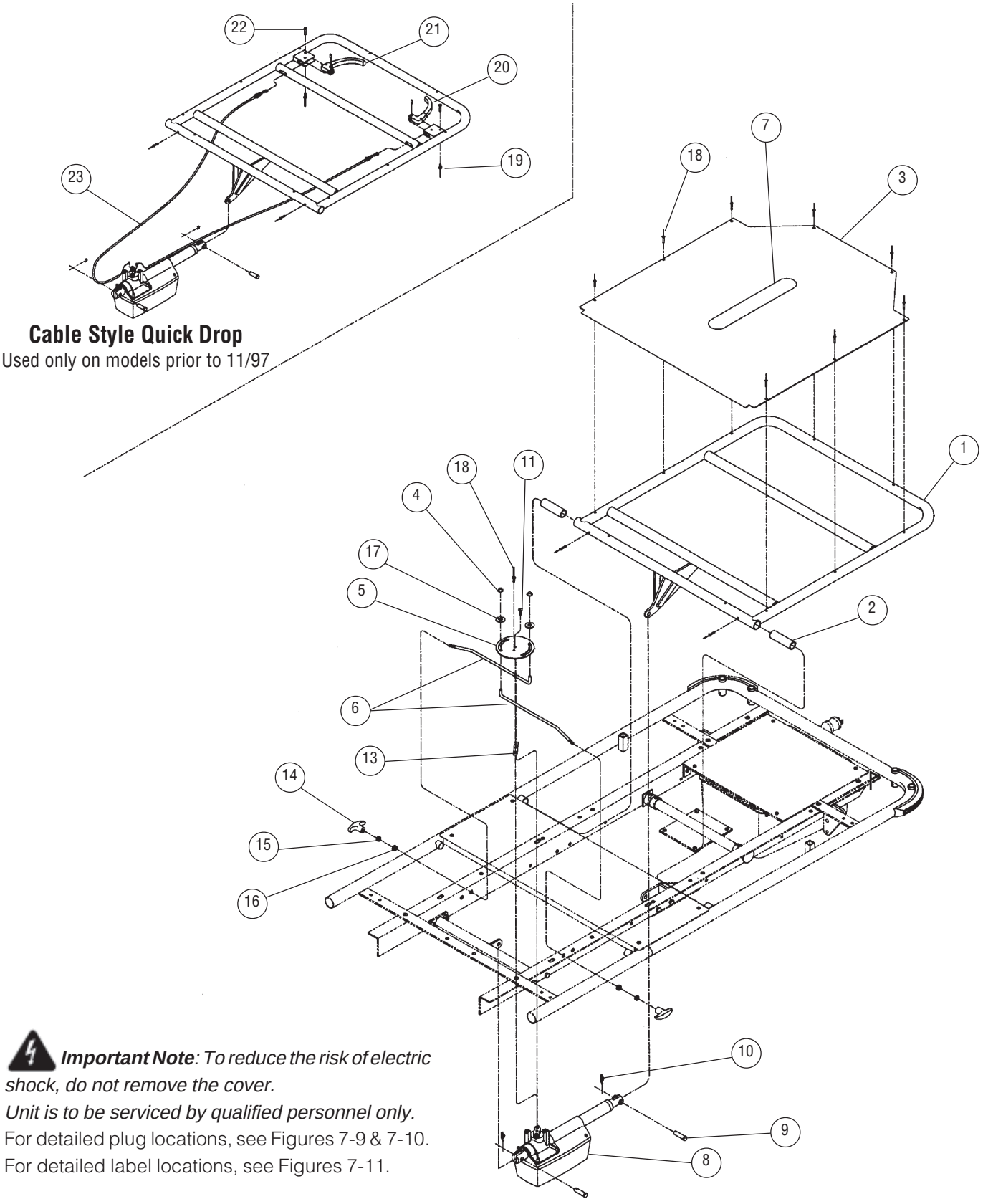
FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-2-			**4E2/4D2 ELECTRIC BASE ASSEMBLY**	**X**
1	075457		ASSEMBLY, Base Frame	1
2	062672		CASTER, Tente, Brake	3
3	062671		CASTER, Tente, Swivel Lock	1
4	062672		PLATE, Caster Bolt Lock	4
5	062685		SCREW, Hex Head Cap, M8 x 1.25 x 12.00" Long	8
6	065041		BOLT, Eye, 5/16-18	4
7	031058		NUT, Free Thread, 5/16-18	4
8	031080		WASHER, Flat, 5/16"	28
9	031057		NUT, Lock, 5/16-18	16
10	062684		LEVER, Cam	2
11	068551		ROD, Horizon Hex Brake	2
12	066507		ASSEMBLY, Left Brake Pedal	2
13	066508		ASSEMBLY, Right Brake Pedal	2
14	031101		SCREW, Hex Head Cap, 1/4-20 x 3/4" Long	4
15	011422		COLLAR, Worm	6
16	068983		COLUMN	2
17	031156		BUMPER	4
18	061350		SCREW, Hex Head Cap, 5/6 -18 x 1.50" Long	8
19	068329		LINK, Brake Rod	1
20	065807		BOLT, Shoulder, 3/8" x 3/8"	2
21	031012		SCREW, Hex Head Cap, 5/16-18 x 1.0" Long	8
22	075448		WELDMENT, Head End Crosstube	1
23	075450		WELDMENT, Foot End Crosstube	1
24	068513		HOOK, Velcro, 2.0" x 5/8"	22
25	068512		PILE, Velcro, 2.0" x 5/8"	22
26	068376		SPACER, Cover	4
27	075006		COVER, Top, Electric Base	1
28	075006		SHROUD, Cover	4
29	000894		TIE, Cable	1
30	062378		CHAIN, Anti-Static	1
31	068475		TAPE, Double Sided, 2.0" x 1/2"	4



***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-9 & 7-10.
For detailed label locations, see Figures 7-11.

Figure 7-3. 4E2/4D2 – DPA Top Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-3-			**4E2/4D2 – DPA TOP ASSEMBLY**	**X**
1	069221	*	WELDMENT, Top, Head/Wide Top	1
2	069225	*	WELDMENT, Top, Foot/Wide	1
3	069234	*	TOP, Seat Sheet Pan/Wide	
4	067292		SCREW, Button Head Cap, 5/16-18 x 3/4" Long	10
5	031057		NUT, Lock, 5/16-18	22
6	031010		SCREW, Hex Head Cap, 5/16-18 x 3/4" Long	8
7	031080		WASHER, 5/16"	12
8	000794		RIVET, Cherry, 3/16" x .45"	16
9	066540		BUMPER, Corner	4
10	061037		SCREW, Hex Head Self Tapping, #10-24 X 3/8" Long	4
11	068484		ASSEMBLY, Top Angle, Right	1
12	068483		ASSEMBLY, Top Angle, Left	1
13	031314		PIN, Spring, 3/16" x 3/4"	4
14	075012		ASSEMBLY, Lockout Support	1
15	061195		SCREW, Button Head Cap, 1/4-20 x 5/8" Long	4
16	031055		NUT, Lock, 1/4-20	16
17	075026		ASSEMBLY, Lockout Slide	1
18	075448		WELDMENT, Head End Crosstube	1
19	068493		PLUG, Crosstube	2
20	068464		COLLAR, Stop, 3/4" I.D.	6
21	075036		SCREW, Cheese Head Machine, M5-10 x 3/8" Long	4
22	075716		BOX, Nurse Control	1
23	031325		SCREW, Button Head Cap, 1/4-20 x 1.00" Long	4
24	075030		ANCHOR, Fowler Actuator	1
25	075022		ANCHOR, Foot Actuator	1
26	075450		WELDMENT, Foot End Crosstube	1
27	068465		ROLLER	4
28	061157		BOLT, Shoulder, 3/8" x 1.00" Long	4
29	075740		COVER, Controller Top	1
30	068467		BRACKET, Roller Pivot	2
31	068463		TUBE, Roller Stop	2
32	075033		ASSEMBLY, Controller, 4E2 (Before 12/98)	1
	075737		ASSEMBLY, Controller, 4E2 (10/98-5/00)	1
	076131		ASSEMBLY, Controller, 4E2 (After 5/00)	1
	076182		ASSEMBLY, Controller, 230V, 4D2 (After 5/00)	1
	075739		ASSEMBLY, Controller, 230V, 4D2 (10/98-5/00)	1
33	075236		PROTECTOR, Tube, Short	2
34	075233		PROTECTOR, Tube, Long (Not Shown)	2
36	031076		WASHER, Flat, 1/4"	4
37	068864		RELIEF, Small Strain	6
38	068863		GLIDE, Plastic	4
39	066925		SCREW, Flat Head Socket, 1/4-20 x 1.00" Long	4
40	068475		TAPE, Double Sided, 1/4" x 2.0"	4
41	075041		COVER, Nurse Control Panel	1
42	075741		ASSEMBLY, Pendant, (CB-14 Version)	1
	075046		ASSEMBLY, Pendant, (CB-10 Version)	1
			***NOTE**: The "O" suffix on the part numbers marked with an " * " designate part numbers for the chrome/stainless units (Model 4E2 DPA-SS). For powder coated units (Model 4E2 DPA-PC), the "O" suffix should be relace with a "P" suffix. (Example: Item 1 for a powder coated unit 4E2 DPA-PC, would become P69221).*	



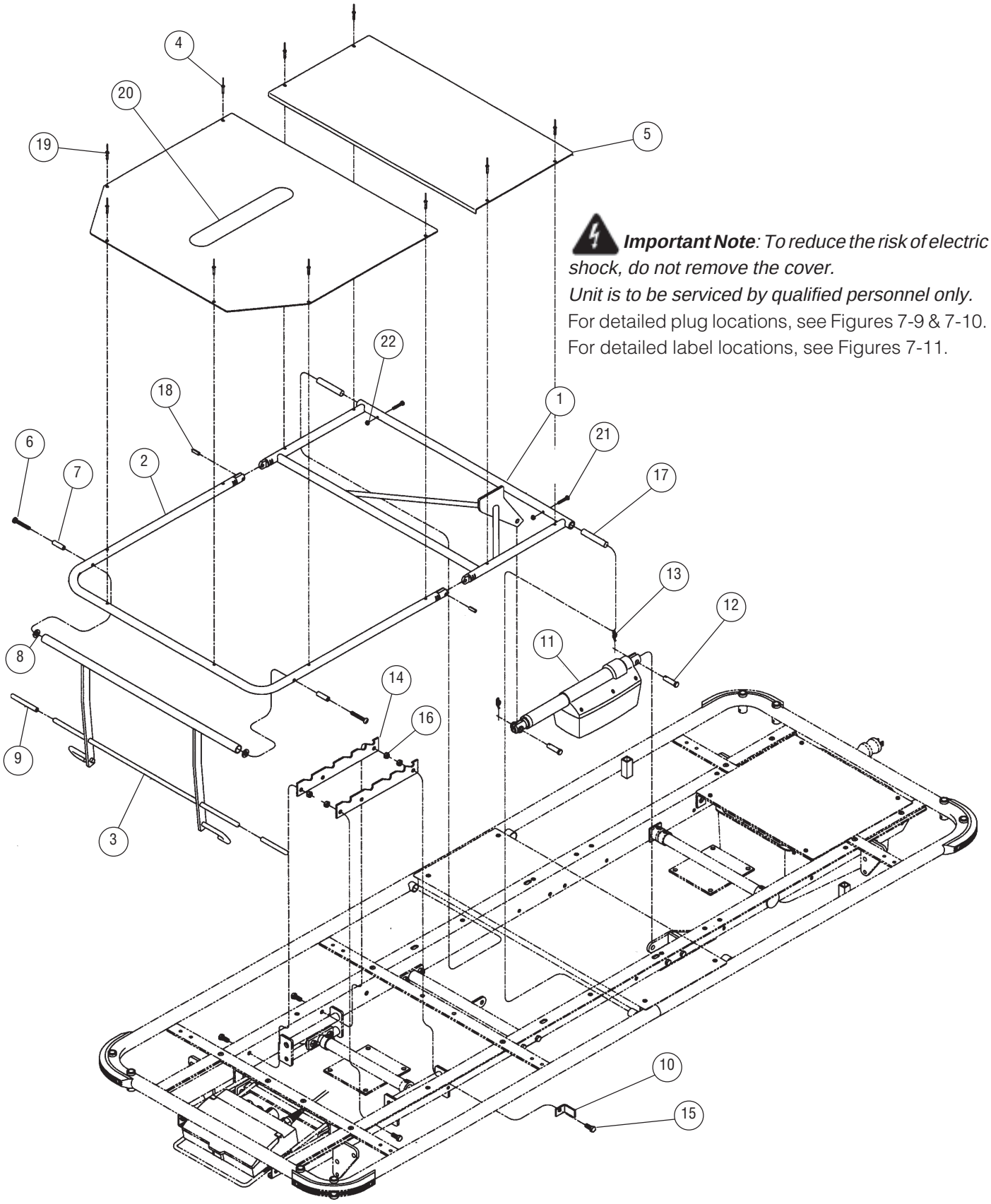
Cable Style Quick Drop
Used only on models prior to 11/97

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-9 & 7-10.
For detailed label locations, see Figures 7-11.

Figure 7-4. 4E2/4D2 – DPA Fowler Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-4-			**4E2/4D2 – DPA FOWLER ASSEMBLY**	**X**
1	075015	*	FRAME, Fowler, Electric, Wide	1
2	066696		PIN, Fowler Hinge	1
3	069237	*	SHEET, Fowler Cover, Wide	1
4	075443		NUT, Cap, 1/4"	2
5	075437		PLATE, Actuator	1
6	075442		ROD, Pull	1
7	031212		HOOK, Velcro	1
8	068985		ACTUATOR, Fowler Backrest	1
9	075627		PIN, Gas Spring Hinge	2
10	065258		CLIP, Rue, 3/8"	2
11	075444		SCREW, Slotted Pan Head, M5 x 20MM	1
12	069440		RIVET, Pop, Steel, 3/16"	2
13	075441		SPACER	1
14	055215		KNOB, Pull	2
15	031054		NUT, Free Thread, 1/4-20	2
16	061336		BEARING, Nylon	2
17	065688		WASHER, Nylon, 5/16"	2
18	000794		RIVET, Pop, Aluminum, 3/16"	9
19	031186		RIVET, Stop	2
20	066547		PIN, Straight, 3/16" x 1/2"	2
21	075042		HANDLE, Fowler	2
22	066548		PIN, Clevis, 3/16" x 7/8"	2
23	075032		CABLE, Fowler Quick Release	2

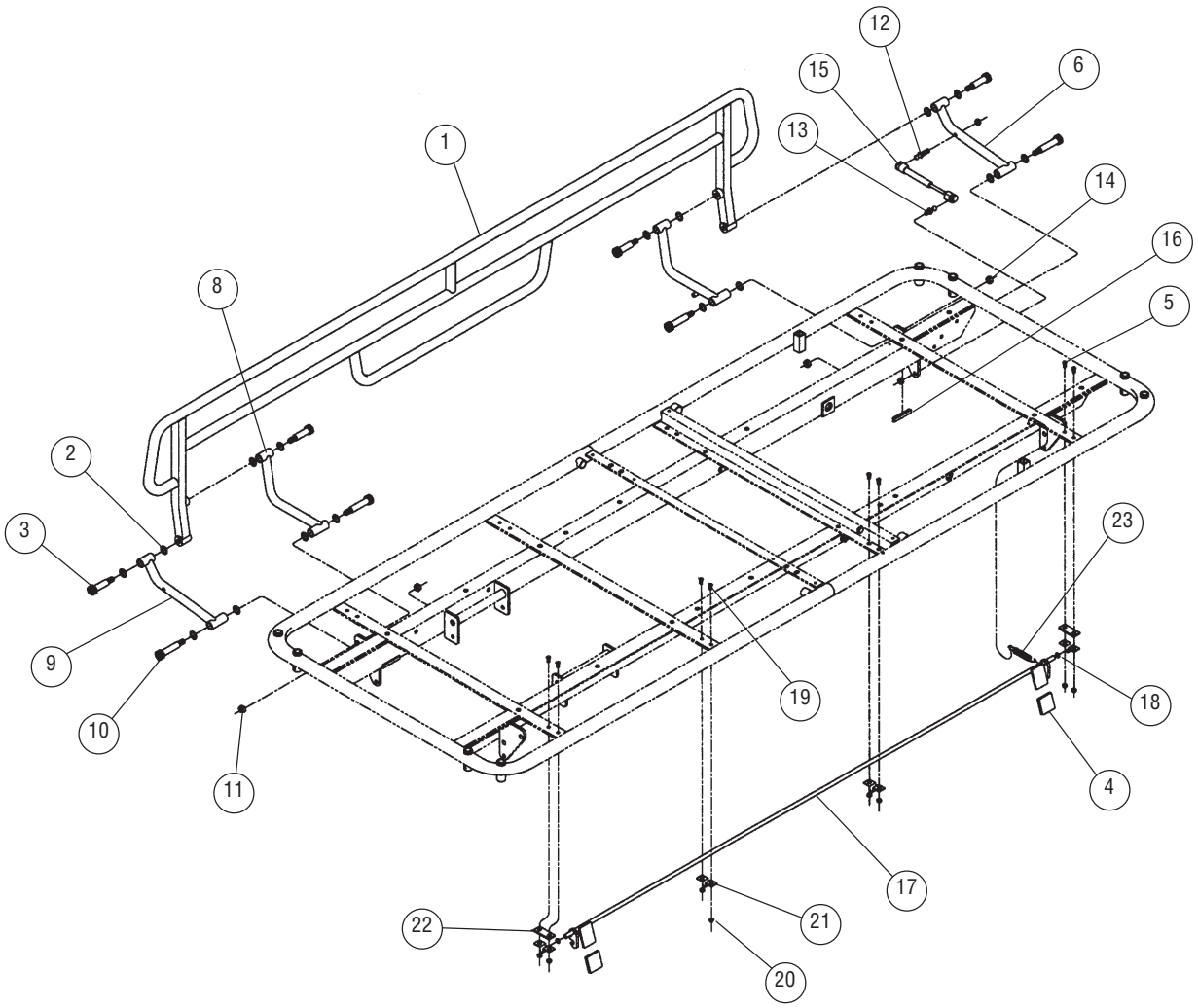
***NOTE**: The "O" suffix on the part numbers marked with an " * " designate part numbers for the chrome/stainless units (Model 4E2 DPA-SS). For powder coated units (Model 4E2 DPA-PC), the "O" suffix should be relace with a "P" suffix. (Example: Item 1 for a powder coated unit 4E2 DPA-PC, would become P75015).*



***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-9 & 7-10.
For detailed label locations, see Figures 7-11.

Figure 7-5. Leg Section Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-5-			**LEG SECTION ASSEMBLY**	**X**
1	P69226		WELDMENT, Knee Frame, Wide Top	1
2	P69232		ASSEMBLY, Foot Frame, Wide Top	1
3	069229		TOP, Kneeflex Foot Support/Wide	1
4	P69236		TOP, Foot Section Cover Sheet/Wide	1
5	P69235		TOP, Knee Section Cover Sheet/Wide	1
6	031357		SCREW, Phillips Oval Head, 1/4-20 x 1-3/4" Long	2
7	067149		SPACER, Foot Frame	2
8	035115		WASHER, Nylon	2
9	066688		CAP, Vinyl	2
10	067143		STOP, Foot Support	1
11	068986		ACTUATOR, Leg Rest	
12	075627		PIN, Gas Spring Hinge	2
13	065258		CLIP, Rue 3/8"	2
14	065059		PLATE, Ratchet	2
15	031010		SCREW, Hex Head Cap, 5/16-18 x 3/4" Long	4
16	031057		NUT, Lock, 5/16-18	4
17	030432		SHAFT, Cross Bar	2
18	031312		PIN spring, 1/4" x 3/4"	2
19	000794		RIVET, Cherry, 3/16" x .45"	10
20	031212		HOOK, Velcro	1
21	075502		SCREW, Phillips Pan Head, #10-24 x 1-1/8" Long	2
22	031421		NUT, Lock, #10-24	2



***NOTE**: Only one side of rail and one side of latch is shown for clarity, the bill of material reflects parts required for a complete stretcher.*

For detailed plug locations, see Figures 7-9, 7-10, 7-18 & 7-19.
For detailed label locations, see Figures 7-11 & 7-20.

Figure 7-6. Airglide Rail Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-6-			**AIRGLIDE RAIL ASSEMBLY**	**X**
1	068453		WELDMENT, Air Glide Rail	2
2	066619		WASHER, Nylon	32
3	066616		BOLT, Shoulder, 1/2" x 1-1/2" Long	8
4	066613		CAP, Rail Latch	4
5	031325		SCREW, Button Head Cap, 1/4-20 x 1/2" Long	8
6	066595		LINK, Lower, Left	2
7	066589		LINK, Upper, Left	
8	066590		LINK, Upper, Right	2
9	066595		LINK, Lower, Right	2
10	062037		BOLT, Shoulder, 1/2" x 2.0"	8
11	066618		NUT, Lock, 3/8-16	
12	067711		STUD, Long Ball	2
13	067712		STUD, Short Ball	2
14	031057		NUT, Lock, 5/16-18	4
15	067709		SPRING, 175 Newton Gas	2
16	066983		LOCK, Trim	4
17	067131		ASSEMBLY, Rail Latch	2
18	061375		WASHER, Nylon	4
19	061195		SCREW, Button Head Cap, 1/4-20 x 5/8" Long	8
20	031055		NUT, Lock, 1/4-20	16
21	067136		SUPPORT, Latch Tube	8
22	066605		PLATE, Latch Support	4
23	066603		SPRING, Latch	2

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-9 & 7-10.
For detailed label locations, see Figures 7-11.

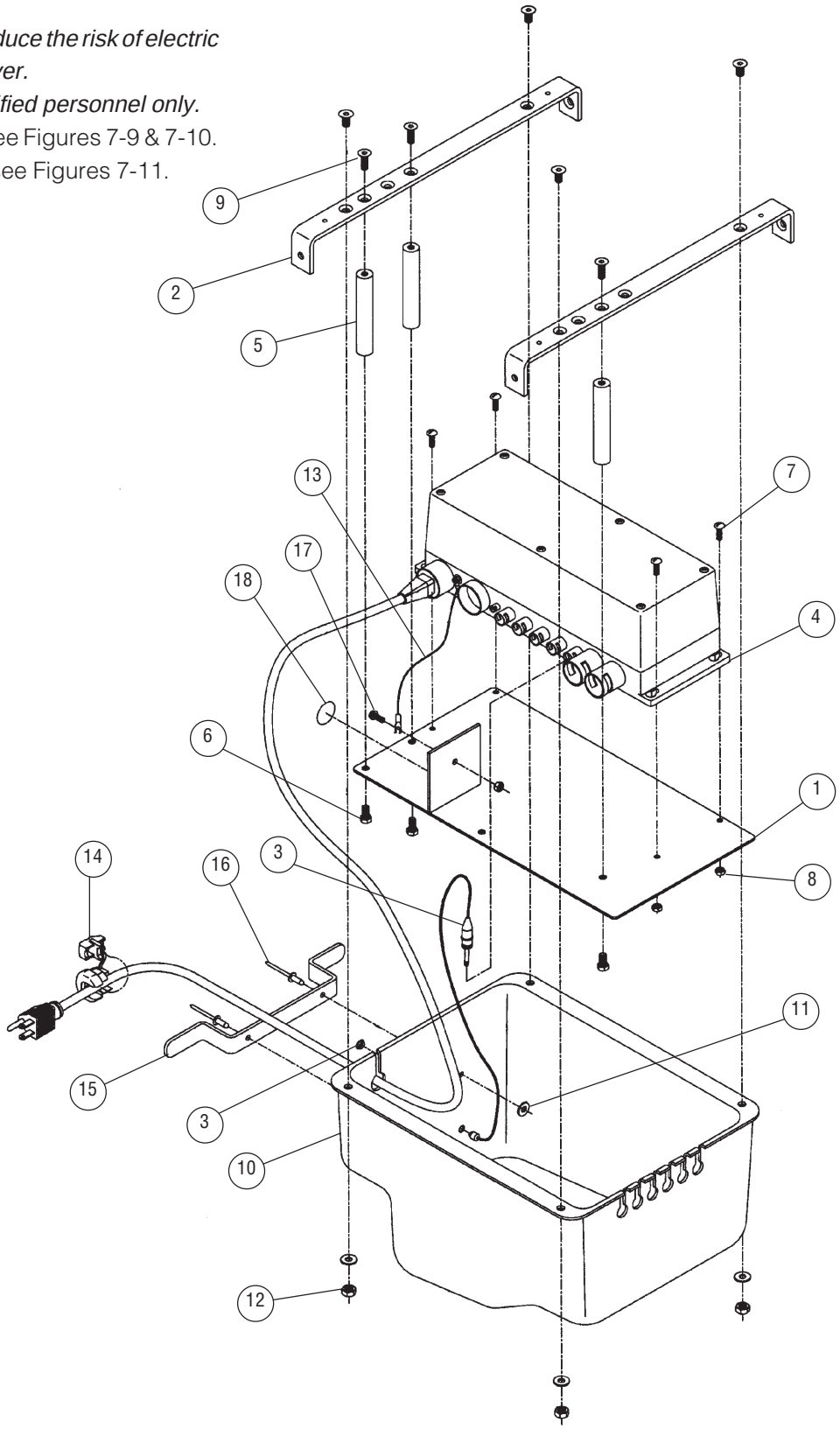


Figure 7-7. 4E2/4D2 – DPA Controller Assembly (After 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-7-			**4E2/4D2 – DPA CONTROLLER ASSEMBLY (AFTER 5/1/00) ..**	**X**
1	076133		WELDMENT, Controller Hanger Plate	1
2	075736		STRAP, Controller Hanger	2
3	075749		ASSEMBLY, Low Battery LED	1
4	075044		CONTROLLER, CB-14, 120VAC, 4E2 Models	1
	075718		CONTROLLER, CB-14, 230VAC, 4D2 Models	1
5	075735		POST, Mounting	3
6	031004		SCREW, Hex Head Cap, 1/4-20 x 1/2" Long	3
7	061159		SCREW, Truss Head Mach, #10-24 x 5/8" Long	4
8	031421		NUT, Lock, #10	5
9	031324		SCREW, Flat Head Mach, 1/4-20 x 1/2" Long	7
10	075732		COVER, Controller	1
11	031074		WASHER, Flat, 3/16"	2
12	031055		NUT, Lock, 1/4-20	4
13	076125		WIRE, Controller Ground	1
14	068982		RELIEF, Strain	1
15	076123		BRACKET, Cord Wrap	1
16	000794		RIVET, 3/16"	2
17	031000		SCREW, Hex Washer Head, #10-24 x 1/2"	1
18	076132		LABEL, Ground Symbol	1

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-9 & 7-10.
For detailed label locations, see Figures 7-11.

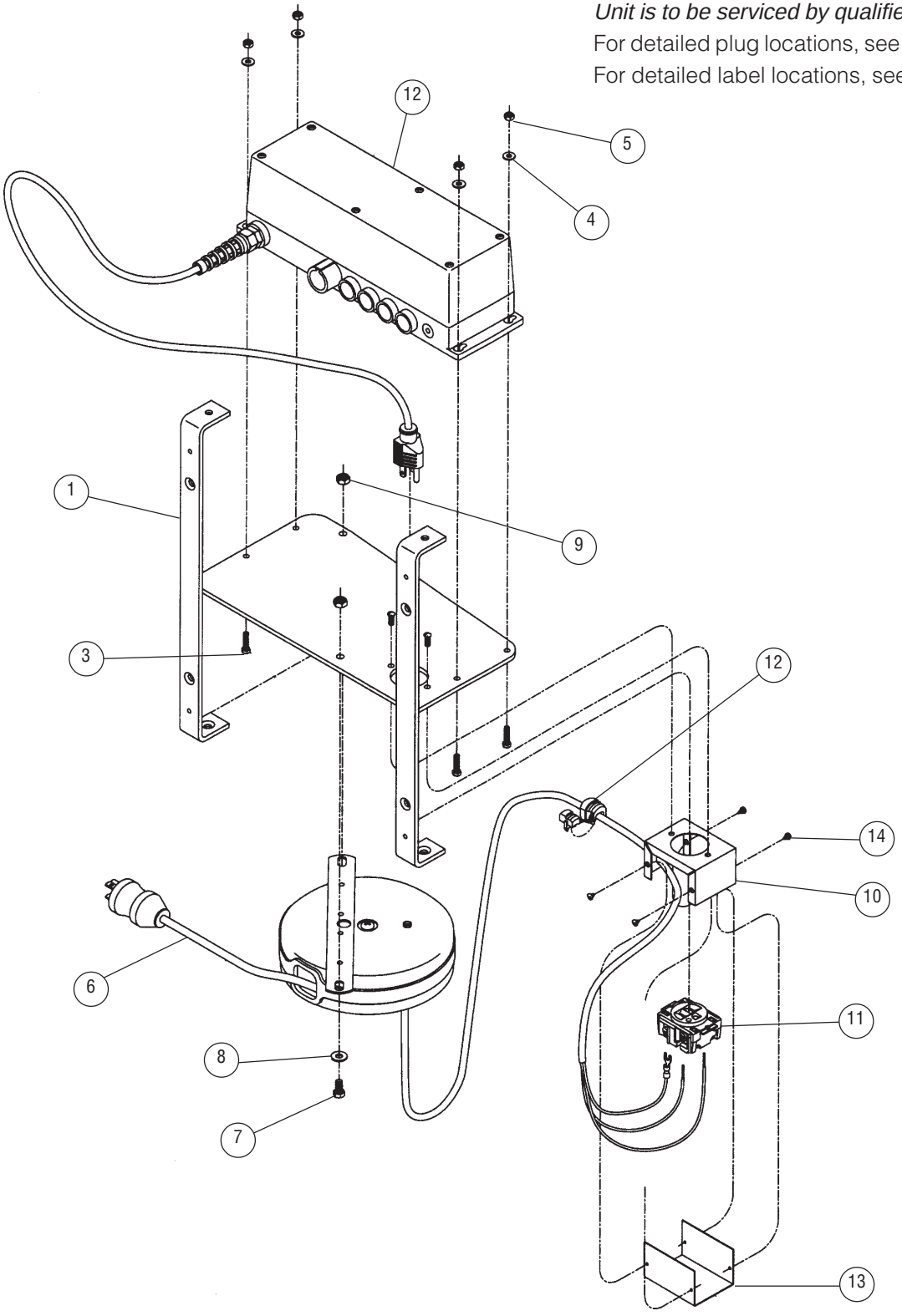


Figure 7-8. DPA Controller Assembly (Before 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-8-			**DPA CONTROLLER ASSEMBLY (BEFORE 5/1/00) .....**	**X**
1	075009		Controller Hanger	1
2	068962		CONTROLLER, CB-10 (Before 10/98)	1
	075044		CONTROLLER, CB-14 (After 10/98)	1
	075467		CONTROLLER, CB-10, 230 VAC, 4D2 (Before 10/98)	1
	075718		CONTROLLER, CB-14, 230 VAC, 4D2 (After 10/98)	1
3	031003		SCREW, Hex Slotted Head Cap, #10-24 x 3/4" Long	4
4	031074		WASHER, Flat, #10	4
5	031421		NUT, Lock, #10	4
6	068966		REEL, Cord	1
7	031017		SCREW, Hex Head Cap, 1/4-20 x 1.00" Long	2
8	031364		WASHER, Flat, 1/4"	2
9	031055		NUT, Lock, 1/4-20	2
10	068979		BASE, Junction Box Base	1
11	068976		RECEPTACLE, Hospital Grade	1
12	068982		RELIEF, Strain	1
13	068980		COVER, Junction Box	1
14	031097		SCREW, Sheet Metal, #6 x 1/4" Long	4

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed label locations, see Figures 7-11.

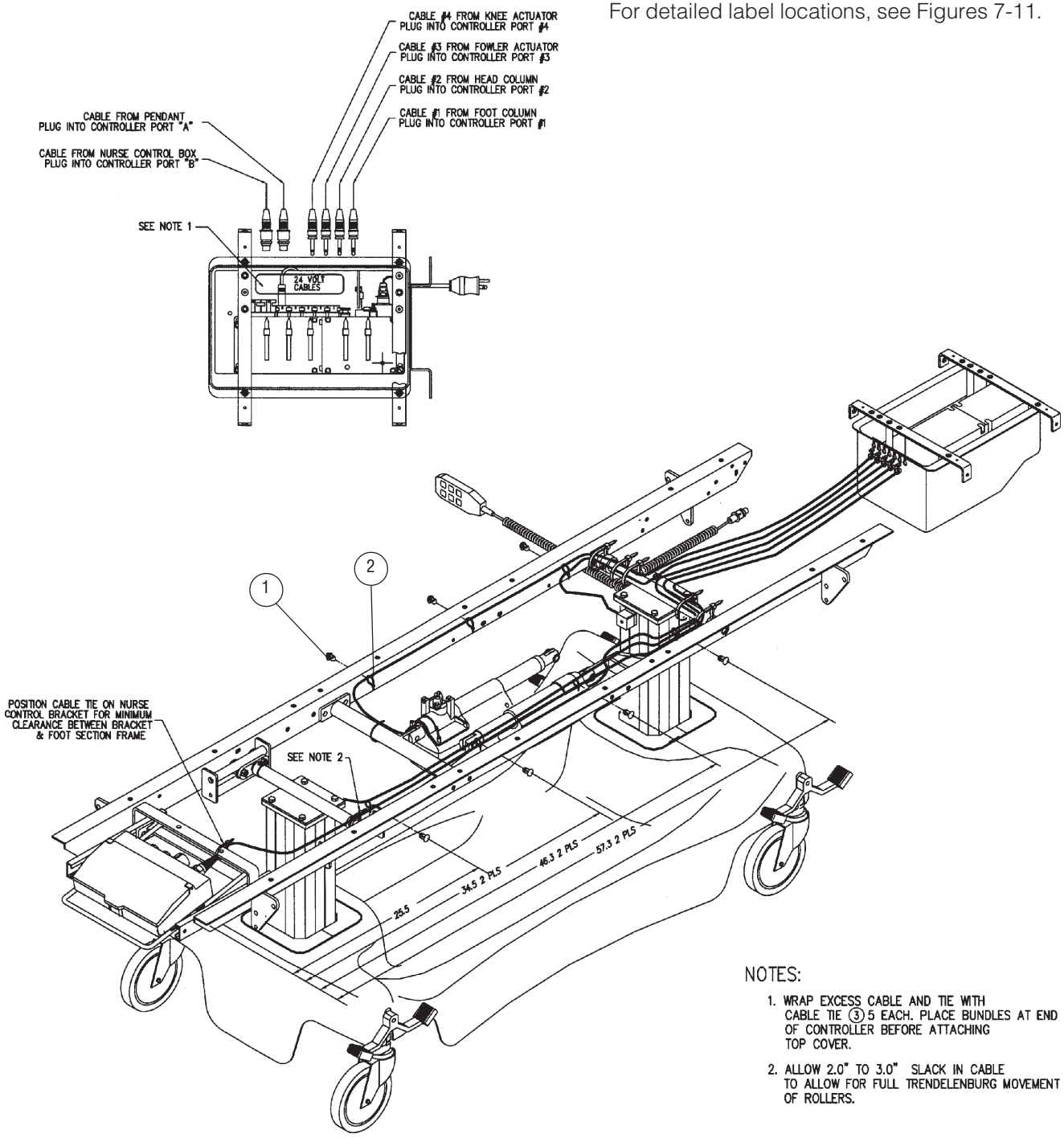

CABLE #4 FROM KNEE ACTUATOR PLUG INTO CONTROLLER PORT #4
CABLE #3 FROM FOWLER ACTUATOR PLUG INTO CONTROLLER PORT #3
CABLE #2 FROM HEAD COLUMN PLUG INTO CONTROLLER PORT #2
CABLE #1 FROM FOOT COLUMN PLUG INTO CONTROLLER PORT #1
CABLE FROM PENDANT PLUG INTO CONTROLLER PORT "A"
CABLE FROM NURSE CONTROL BOX PLUG INTO CONTROLLER PORT "B"
SEE NOTE 1
24 VOLT CABLES
1
2
POSITION CABLE TIE ON NURSE CONTROL BRACKET FOR MINIMUM CLEARANCE BETWEEN BRACKET & FOOT SECTION FRAME
SEE NOTE 2
25.5
34.5 2 PLS
46.3 2 PLS
57.3 2 PLS
NOTES:
1. WRAP EXCESS CABLE AND TIE WITH CABLE TIE (3) 5 EACH. PLACE BUNDLES AT END OF CONTROLLER BEFORE ATTACHING TOP COVER.
2. ALLOW 2.0" TO 3.0" SLACK IN CABLE TO ALLOW FOR FULL TRENDELENBURG MOVEMENT OF ROLLERS.

Figure 7-9. DPA Plug and Wiring Diagram (After 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-9-				
1	063031		BUTTON	7
2	065403		TIE, Cable (Large)	20

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed label locations, see Figures 7-11.

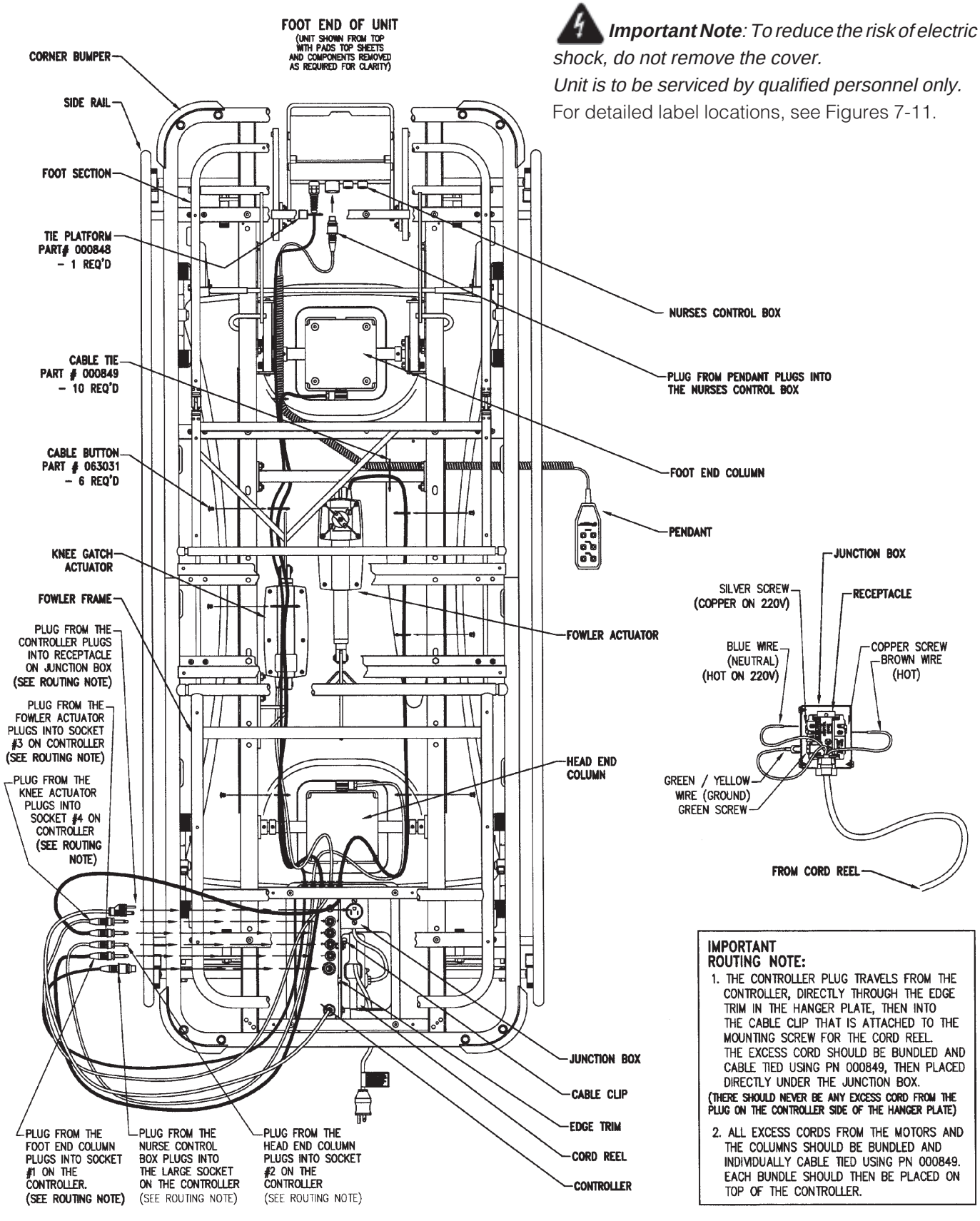

FOOT END OF UNIT
(UNIT SHOWN FROM TOP WITH PADS TOP SHEETS AND COMPONENTS REMOVED AS REQUIRED FOR CLARITY)
CORNER BUMPER
SIDE RAIL
FOOT SECTION
TIE PLATFORM PART# 000848 - 1 REQ'D
CABLE TIE PART # 000849 - 10 REQ'D
CABLE BUTTON PART # 063031 - 6 REQ'D
KNEE GATCH ACTUATOR
FOWLER FRAME
PLUG FROM THE CONTROLLER PLUGS INTO RECEPTACLE ON JUNCTION BOX (SEE ROUTING NOTE)
PLUG FROM THE FOWLER ACTUATOR PLUGS INTO SOCKET #3 ON CONTROLLER (SEE ROUTING NOTE)
PLUG FROM THE KNEE ACTUATOR PLUGS INTO SOCKET #4 ON CONTROLLER (SEE ROUTING NOTE)
NURSES CONTROL BOX
PLUG FROM PENDANT PLUGS INTO THE NURSES CONTROL BOX
FOOT END COLUMN
PENDANT
FOWLER ACTUATOR
HEAD END COLUMN
JUNCTION BOX
CABLE CLIP
EDGE TRIM
CORD REEL
CONTROLLER
JUNCTION BOX
SILVER SCREW (COPPER ON 220V)
RECEPTACLE
BLUE WIRE (NEUTRAL) (HOT ON 220V)
COPPER SCREW BROWN WIRE (HOT)
GREEN / YELLOW WIRE (GROUND) GREEN SCREW
FROM CORD REEL
PLUG FROM THE FOOT END COLUMN PLUGS INTO SOCKET #1 ON THE CONTROLLER. (SEE ROUTING NOTE)
PLUG FROM THE NURSE CONTROL BOX PLUGS INTO THE LARGE SOCKET ON THE CONTROLLER (SEE ROUTING NOTE)
PLUG FROM THE HEAD END COLUMN PLUGS INTO SOCKET #2 ON THE CONTROLLER (SEE ROUTING NOTE)
IMPORTANT ROUTING NOTE:
1. THE CONTROLLER PLUG TRAVELS FROM THE CONTROLLER, DIRECTLY THROUGH THE EDGE TRIM IN THE HANGER PLATE, THEN INTO THE CABLE CLIP THAT IS ATTACHED TO THE MOUNTING SCREW FOR THE CORD REEL. THE EXCESS CORD SHOULD BE BUNDLED AND CABLE TIED USING PN 000849, THEN PLACED DIRECTLY UNDER THE JUNCTION BOX.
(THERE SHOULD NEVER BE ANY EXCESS CORD FROM THE PLUG ON THE CONTROLLER SIDE OF THE HANGER PLATE)
2. ALL EXCESS CORDS FROM THE MOTORS AND THE COLUMNS SHOULD BE BUNDLED AND INDIVIDUALLY CABLE TIED USING PN 000849. EACH BUNDLE SHOULD THEN BE PLACED ON TOP OF THE CONTROLLER.

Figure 7-10. DPA Plug and Wiring Diagram (Before 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-10			DPA PLUG AND WIRING DIAGRAM (BEFORE 5/1/00)	

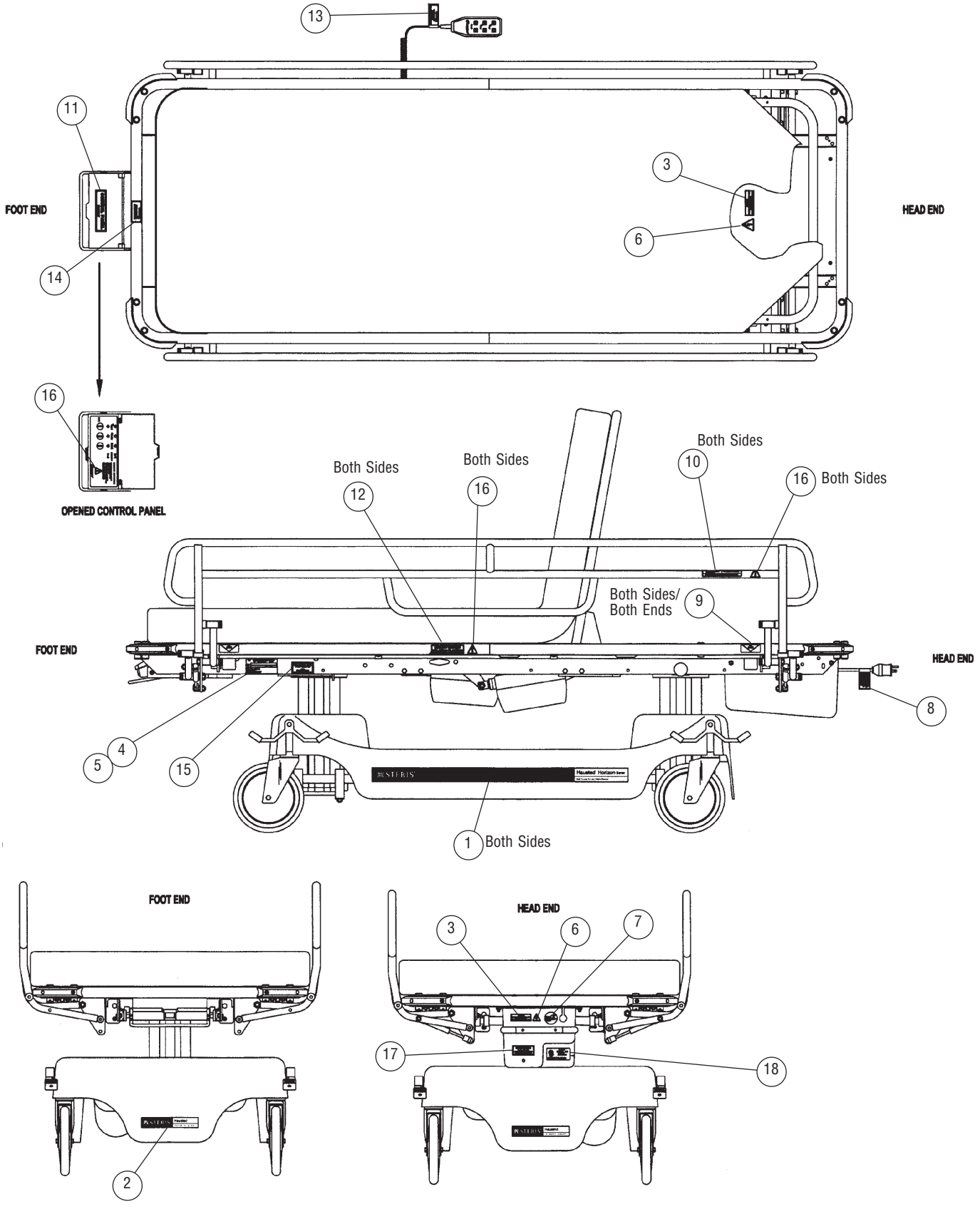
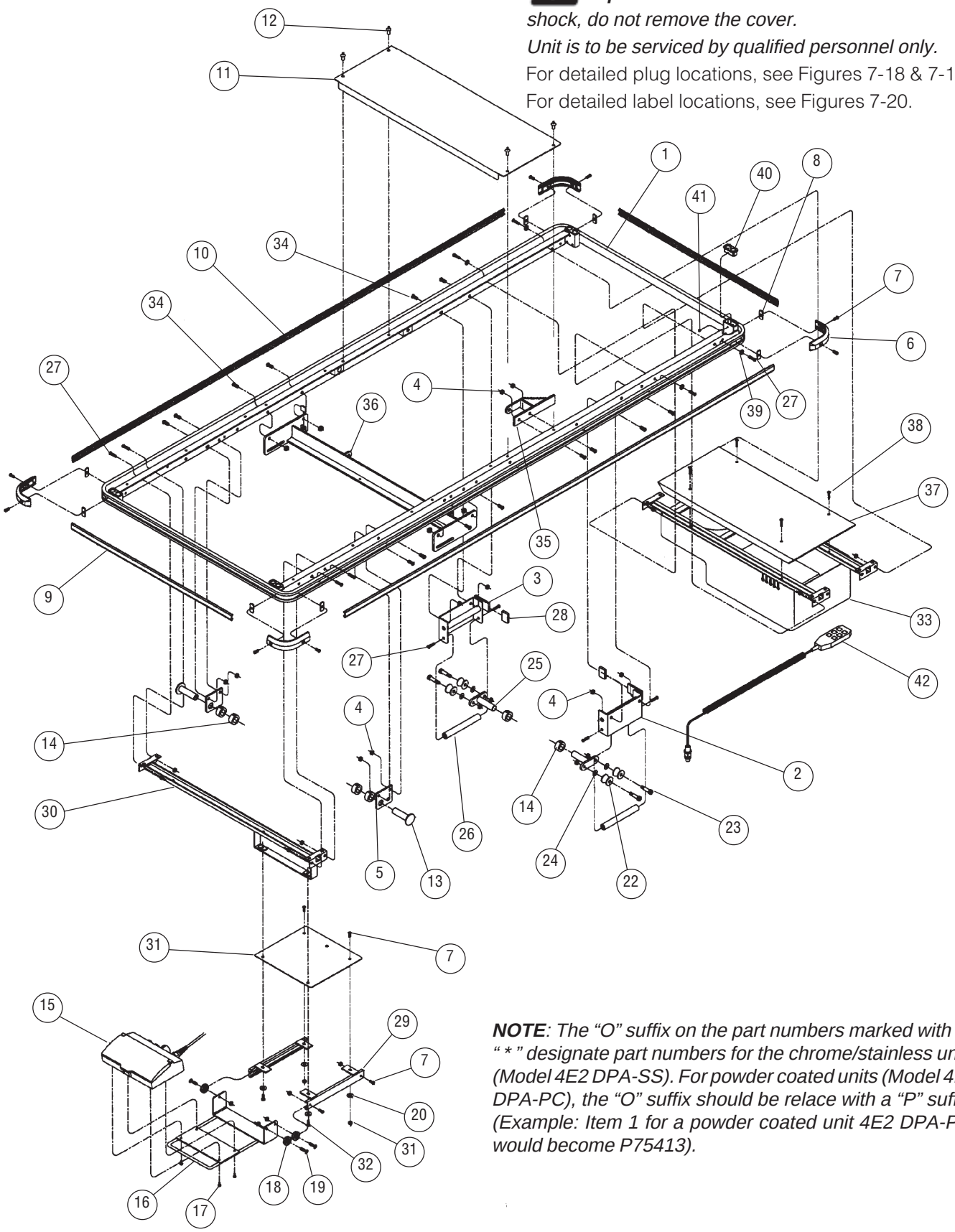


Figure 7-11. 4E2 – DPA Label Locations

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY	
7-11-			**4E2 – DPA LABEL LOCATIONS**	**X**	
			4D2 – DPA LABEL LOCATIONS		**X**
1	075836		LABEL, Side-Electric Stretcher	2	2
2	075831		LABEL, Base End	2	2
3	068855		LABEL, Electric Service	2	2
4	076127		LABEL, Serial Number, 110V Electric	1	–
	075475		LABEL, Serial Number, 230V Electric	–	1
5	031458		OVERLAY, Clear Mylar	1	1
6	075478		LABEL, Dangerous Voltage	2	2
7	075484		LABEL, Unplug Before Servicing	1	1
8	055025		LABEL, Hospital Grade Receptacle	1	–
9	066716		LABEL, Rail Release	4	4
10	066717		LABEL, Rail Operation	2	2
11	075035		LABEL, Control Panel	1	1
12	075040		LABEL, Emergency Release	2	2
13	075489		LABEL, Pendant	1	1
14	075589		LABEL, Maximum Weight, 625 pounds	1	1
15	063022		LABEL, Service	1	1
16	075479		LABEL, Hazardous Area	5	5
17	075748		LABEL, Low Battery	1	1
18	061815		LABEL, ETL Listing	1	–

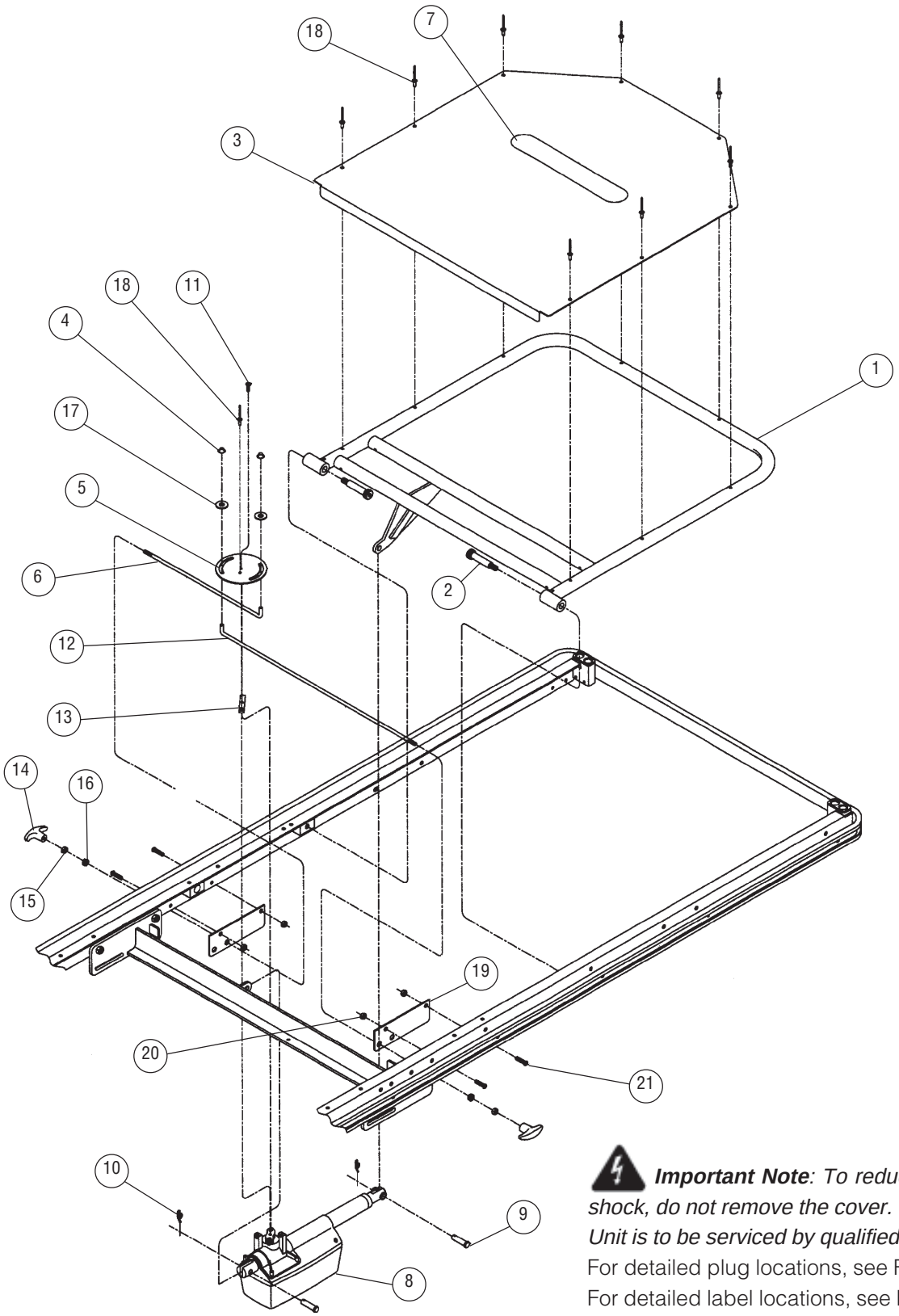
***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-18 & 7-19.
For detailed label locations, see Figures 7-20.



***NOTE**: The "O" suffix on the part numbers marked with an " * " designate part numbers for the chrome/stainless units (Model 4E2 DPA-SS). For powder coated units (Model 4E2 DPA-PC), the "O" suffix should be relace with a "P" suffix. (Example: Item 1 for a powder coated unit 4E2 DPA-PC, would become P75413).*

Figure 7-12. 4E2/4D2 – HMC Top Assembly

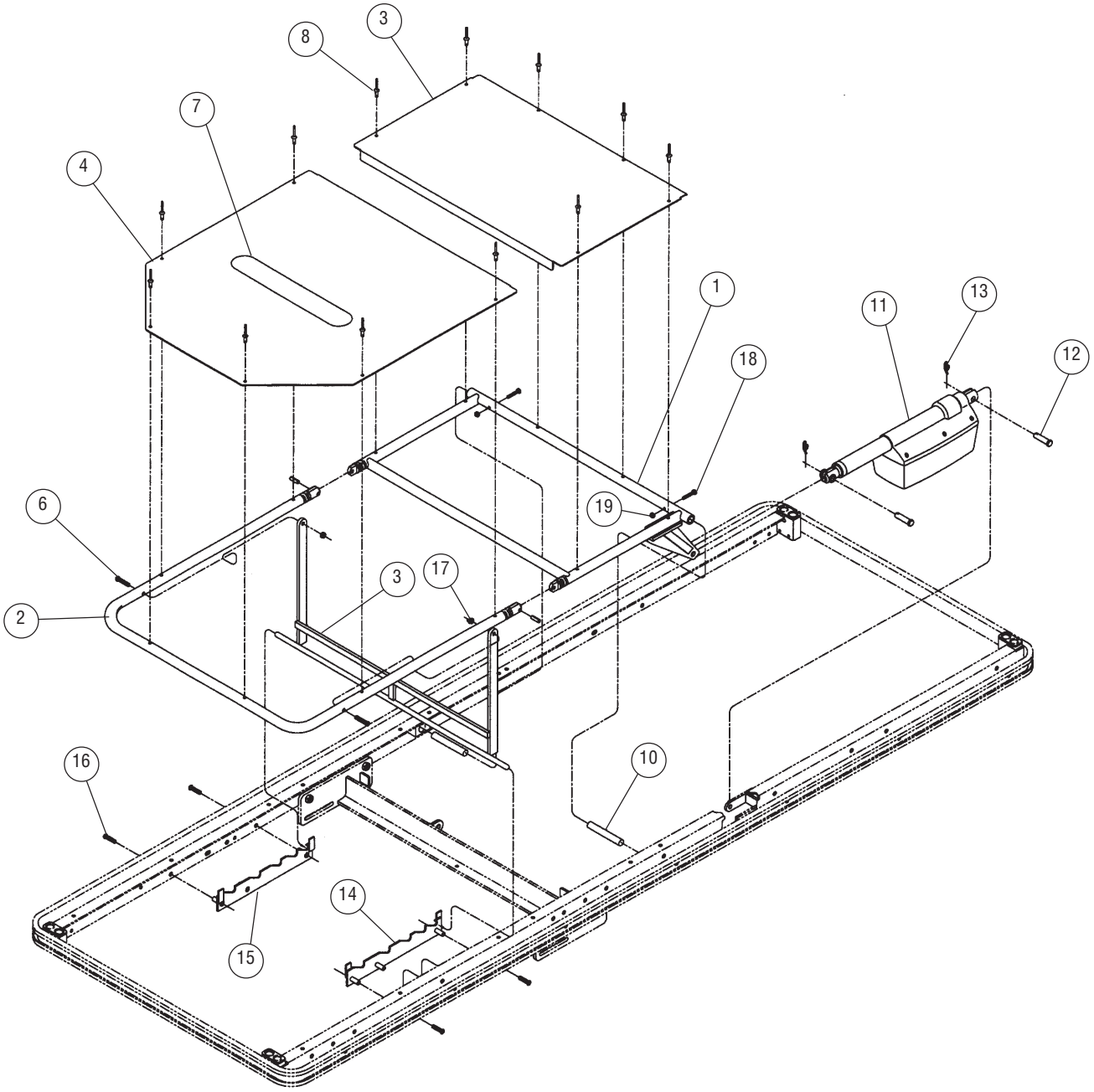
FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-12-			**4E2/4D2 – HMC TOP ASSEMBLY**	**X**
*1	075413		WELDMENT, Top	1
2	068461		ASSEMBLY, Roller Bracket, Right	1
3	068536		ASSEMBLY, Roller Bracket, Left	1
4	031057		NUT, Lock, 5/16-18	18
5	068481		PLATE, Foot End Support	2
6	067958		BUMPER, Corner	4
7	061195		SCREW, Button Head Cap, 1/4-20 x 5/8" Long	12
8	031455		NUT, Channel, 1/4-20	8
9	068154		EXTENSION, End Bumper, Gray	2
10	13193U		EXTENSION, End Bumper, Red	2
	13193V		EXTENSION, End Bumper, Blue	2
	13193W		EXTENSION, End Bumper, Green	2
	067959		EXTENSION, Side Bumper, Gray	2
*11	067960		EXTENSION, Side Bumper, Red	2
	067961		EXTENSION, Side Bumper, Blue	2
	067964		EXTENSION, Side Bumper, Green	2
	062215		COVER, Seat Section	1
12	055213		RIVET, 1/4" x 1/2"	4
13	068493		PLUG, Crosstube	2
14	068464		COLLAR, Shaft, 3/4"	6
15	075716		BOX, Nurse Control	1
16	P75093		ASSEMBLY, Lock Out Slide	1
17	075036		SCREW, Cheese Head, M5 x .8 x 10 mm Long	4
18	068663		GLIDE, Plastic	3
19	066925		SCREW, Flat Head Cap, 1/4-20 x 1.0" Long	3
20	031364		WASHER, Flat, 1/4"	2
21	031055		NUT, Lock, 1/4-20	15
22	068465		ROLLER	4
23	061157		BOLT, Shoulder, 3/8" x 1.00"	4
24	035115		WASHER, Nylon 3/8" I.D.	4
25	068467		BRACKET, Roller Pivot	2
26	068463		TUBE, Roller Stop	2
27	031325		SCREW, Button Head Socket, 1/4-20 x 1.00" Long	12
28	068538		CAP, Fowler Stop	2
29	P75096		TRACK, Lock Out Support	2
30	075416		HANGER, Nurse Control	1
31	P75466		COVER, Nurse Control Top	1
32	068786		SCREW, Hex Head Cap, 1/4-20 x 5/8" Long	2
33	075414		ASSEMBLY, Controller, (Before 8/98)	1
	075712		ASSEMBLY, Controller, 4E2 (8/98–5/00)	1
	076134		ASSEMBLY, Controller, 4E2 (After 5/00)	1
	075497		ASSEMBLY, Controller, 4D2, 230 VAC (Before 5/00)	1
	076183		ASSEMBLY, Controller, 4D2, 230 VAC (After 5/00)	1
34	067292		SCREW, Button Head Socket, 5/16-18 x 3/4" Long	8
35	075022		ANCHOR, Knee Actuator	1
36	065424		ANCHOR, Fowler Actuator	1
37	075465		COVER, Controller Top	1
38	031500		SCREW, Truss Head Machine, #10-24 x 1.0" Long	4
39	031090		WASHER, Internal Tooth Lock, 1/4"	4
40	075226		CAP, I.V. Well Top	4
41	075229		CLIP, Nylon Arrow, 1/8"	4
42	075718		PENDANT, (CB-14 Version)	1
	068962		PENDANT, (CB-10 Version)	1



***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-18 & 7-19.
For detailed label locations, see Figures 7-20.

Figure 7-13. HMC Fowler Assembly

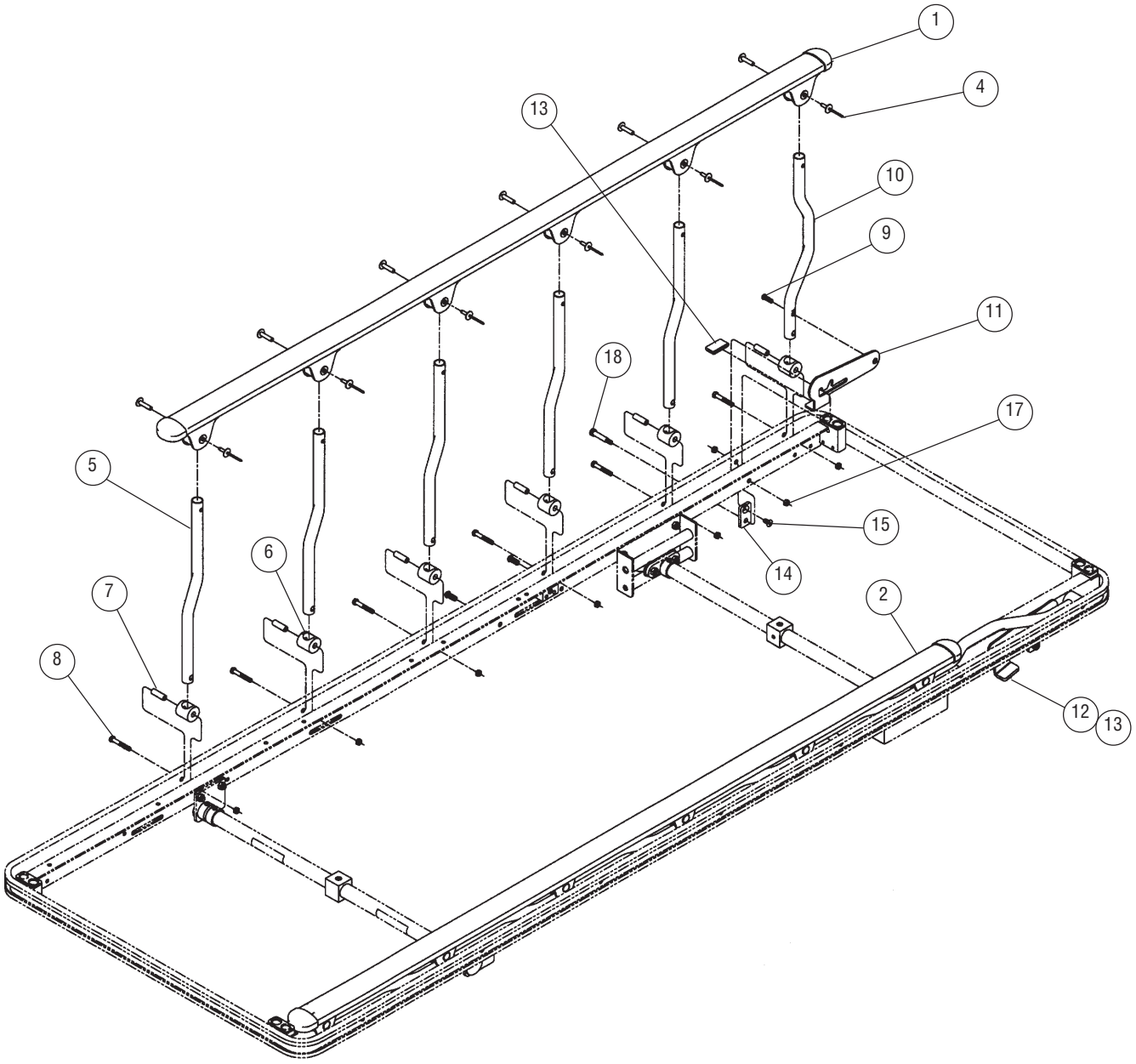
FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-13-			**HMC FOWLER ASSEMBLY**	**X**
*1	075425		Fowler Frame-Electric / Wide	1
2	062037		Shoulder Bolt, 1/2 x 2	2
*3	065879		Fowler Cover Sheet/Wide	1
4	075443		NUT, Cap, 1/4"	2
5	075437		PLATE, Actuator	1
6	075440		ROD, Quick Drop Release, Short	1
7	031212		HOOK, Velcro	1
8	068985		ACTUATOR, Fowler Backrest	1
9	075627		PIN, Gas Spring Hinge	2
10	065258		CLIP, Rue 3/8	2
11	075444		SCREW, Slotted Pan Head, M5 x 20MM	1
12	075439		ROD, Quick Drop Release, Long	1
13	075441		SPACER	1
14	055215		KNOB, Pull	2
15	031054		NUT, Free Thread, 1/4-20	2
16	061336		BEARING, Nylon	2
17	065688		WASHER, Nylon 5/16"	2
18	000794		RIVET, Pop, Aluminum, 3/16"	9
19	P75438		PLATE, Quick Drop Support	2
20	031055		NUT, Lock, 1/4-20	4
21	031327		SCREW, Button Head Socket, 1/4-20 x 1.0" Long	4
			***NOTE**: The "O" suffix on the part numbers marked with an " * " designate part numbers for the chrome/stainless units (Model 4E2 DPA-SS). For powder coated units (Model 4E2 DPA-PC), the "O" suffix should be relace with a "P" suffix. (Example: Item 1 for a powder coated unit 4E2 DPA-PC, would become P75425).*	



***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-18 & 7-19.
For detailed label locations, see Figures 7-20.

Figure 7-14. HMC Leg Section Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-14-			**HMC LEG SECTION ASSEMBLY**	**X**
1	P65626		WELDMENT, Knee Frame, Extra Wide	1
2	P65629		ASSEMBLY, Foot Frame, Extra Wide	1
3	062254		SUPPORT, Kneeflex Foot, Extra Wide	1
4	P62261		SHEET, Foot Section Cover , Extra Wide	1
5	P33050		SHEET, Knee Section Cover, Extra Wide	1
6	062128		SCREW, Button Head Socket, 1/4-20 x 1-1/4" long	2
7	031212		HOOK, Velcro	1
8	000794		RIVET, Cherry, 3/16" x .45"	12
9	031312		PIN, Spring, 1/4" x 3/4"	2
10	062209		SHAFT, Cross Bar	2
11	068986		ACTUATOR, Leg Rest	1
12	075627		PIN, Gas Spring Hinge	2
13	065258		CLIP, Rue 3/8	2
14	065060		PLATE, Ratchet, Right.	1
15	065061		PLATE, Ratchet, Left.	1
16	031327		SCREW, Button Head Socket, 1/4-20 x 1.0" Long	4
17	031055		NUT, Lock, 1/4-20	2
18	075502		SCREW, Phillips Pan Head, #10-24 x 1-1/8" Long	2
19	031421		NUT, Lock, #10-24	2



***NOTE**: Only one side of rail is shown for clarity. The bill of material reflects parts required for a complete unit.*

Figure 7-15. Retracto Rail Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-15-			**RETRACTO RAIL ASSEMBLY**	**X**
1	075057		ASSEMBLY, Top Cap, Left	1
2	075056		ASSEMBLY, Top Cap, Right	1
3	068886		RIVET, Cherry, Female End	12
4	068886		RIVET, Cherry, Male End	12
5	068882		LEG, Offset	10
6	035137		ROCKER	12
7	035138		SPACER	12
8	035122		SCREW, Hex Head Cap, 1/4-20 x 1- 5/8" Long	12
9	062038		SCREW, Button Head Socket, 1/4-20 x 3/4" Long	2
10	068833		LEG, Lock	2
11	065432		PLATE, Lock, Left	1
12	065433		PLATE, Lock, Right	1
13	075269		CAP, Red Vinyl	2
14	068198		SUPPORT, Retracto Rail Plate	2
15	031325		SCREW, Flat Head Socket, 1/4-20 x 1/2" Long	2
16	066617		BOLT, Shoulder, 5/16" x 1-1/4" long	2
17	031055		NUT, Lock, 1/4-20	16

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-18 & 7-19.
For detailed label locations, see Figures 7-20.

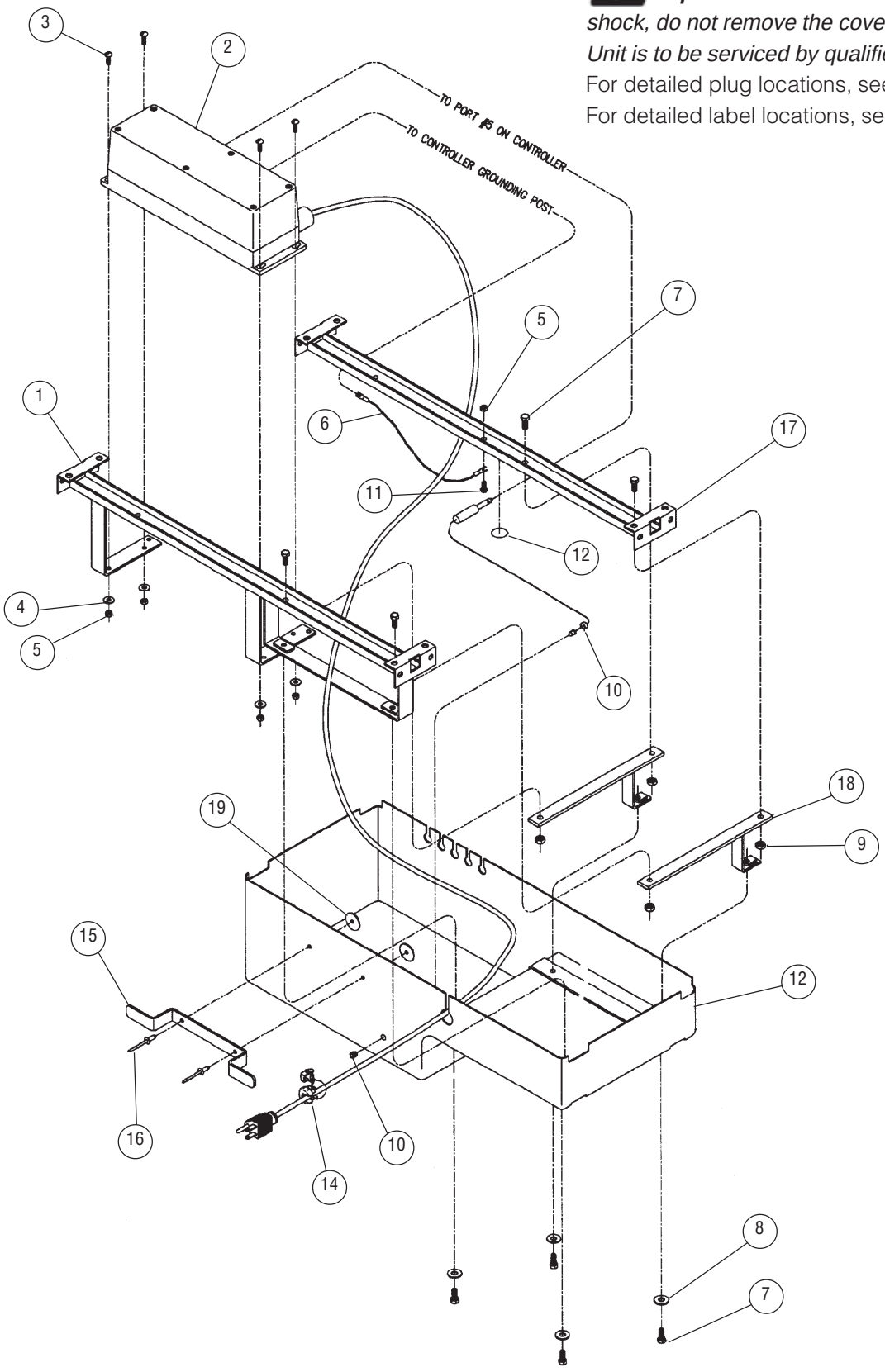


Figure 7-16. 4E2/4D2 – HMC Controller Assembly (After 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-16-			**4E2/4D2 – HMC CONTROLLER ASSEMBLY (AFTER 5/1/00) .**	**X**
1	065135		HANGER, Controller, Rear E.W.	1
2	075044		CONTROLLER, CB -14, 120 VAC, 4E2	1
	075718		CONTROLLER, CB -14, 230 VAC, 4D2	1
3	061159		SCREW, Truss Head Machine, #10 24 x 5/8" Long	4
4	031074		WASHER, Flat, 3/16"	6
5	031421		NUT, Lock, #10-24	5
6	076125		WIRE, Controller Ground	1
7	068786		SCREW, Hex Head Cap, 1/4-20 x 5/8" Long	8
8	031364		WASHER, Flat, 1/4"	4
9	031055		NUT, Lock, 1/4-20	4
10	075749		ASSEMBLY, LED Wire	1
11	031000		SCREW, Hex Head Cap, #10-24 x 1/2" Long	1
12	076132		LABEL, Ground Symbol	1
13	075077		COVER, Controller	1
14	068982		RELIEF, Strain	1
15	076123		BRACKET, Cord Wrap	1
16	000794		RIVET, 3/16"	2
17	000703		HANGER, Controller, Front E.W.	1
18	075705		BRACKET, Cord Reel	2
19	000787		WASHER, 3/16" Large O.D.	2

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*
Unit is to be serviced by qualified personnel only.
For detailed plug locations, see Figures 7-18 & 7-19.
For detailed label locations, see Figures 7-20.

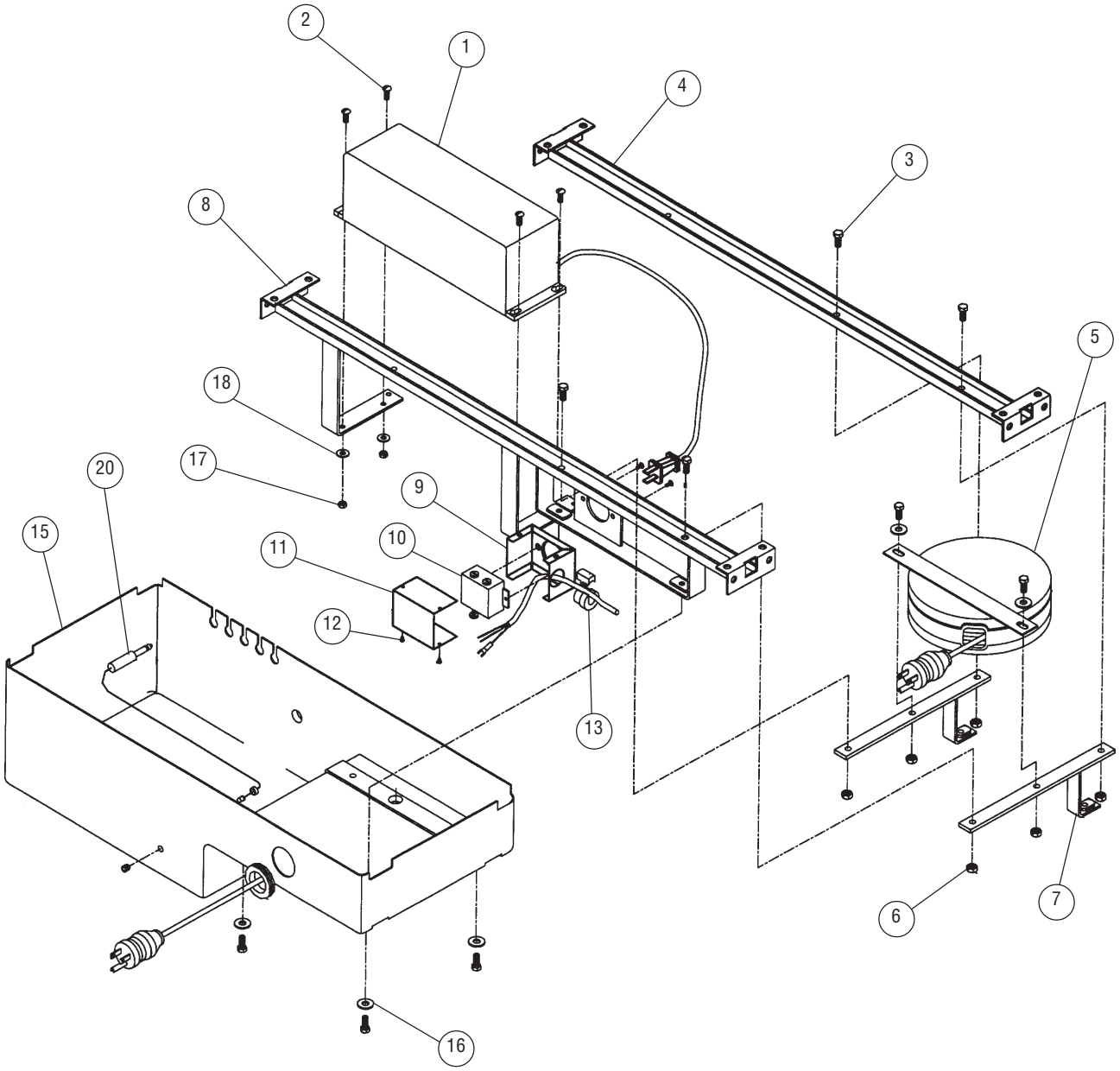


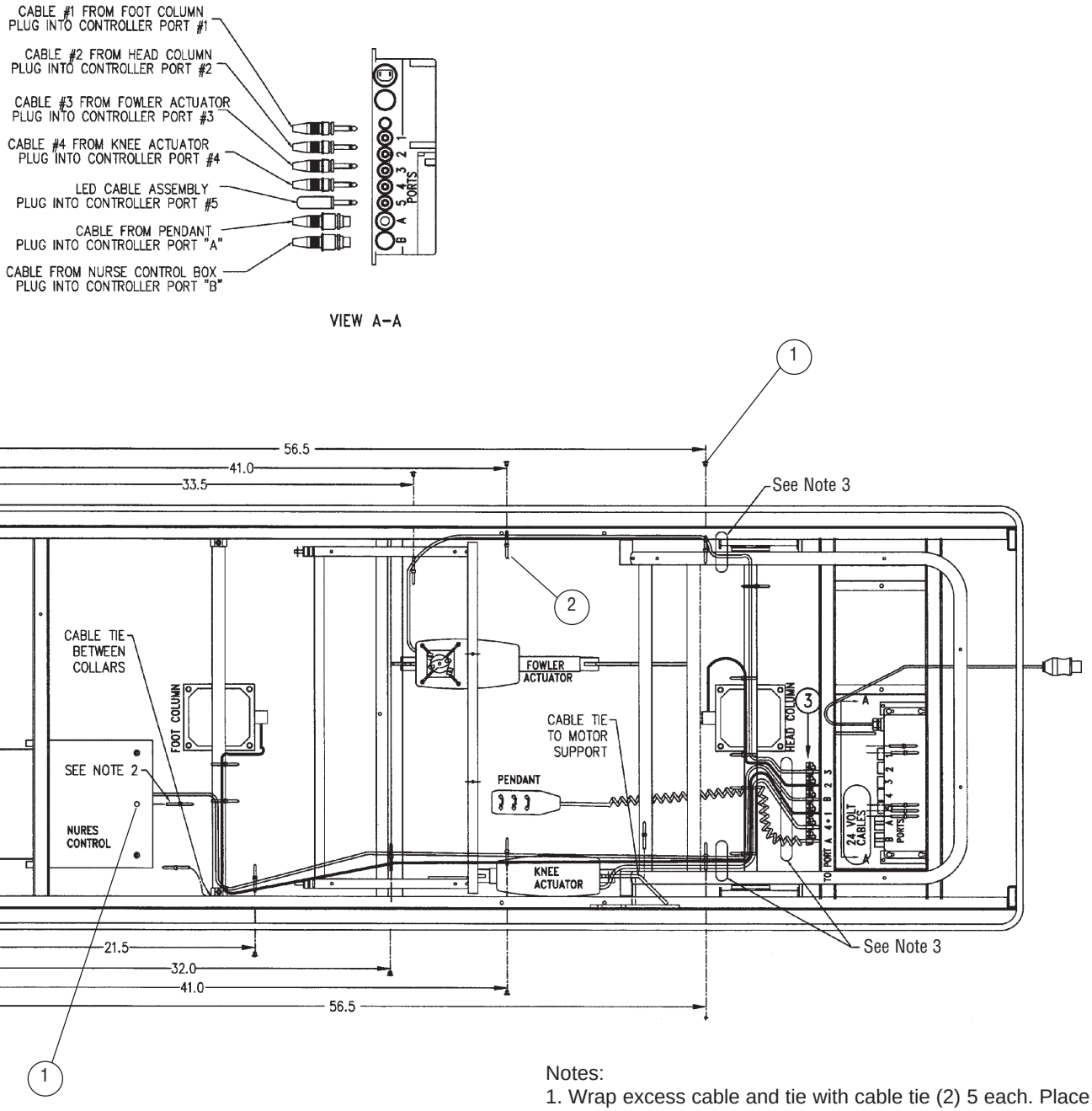
Figure 7-17. 4E2/4D2 – HMC Controller Assembly (Before 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-17-			**4E2/4D2 – HMC CONTROLLER ASSEMBLY (BEFORE 5/1/00)**	**X**
1	068962		CONTROLLER, CB-10, 120 VAC, 4E2	1
	075044		CONTROLLER, CB-14, 120 VAC, 4E2 (After 5/1/00)	1
	075467		CONTROLLER, CB-10, 230 VAC, 4D2	1
	075718		CONTROLLER, CB-14, 230 VAC, 4D2 (After 5/1/00)	1
2	061159		SCREW, Truss Head Machine, #10 24 x 5/8" Long	4
3	068786		SCREW, Hex Head Cap, 1/4-20 x 5/8" Long	10
4	075703		HANGER, Controller, Front XW	1
5	068966		REEL, Cord Reel	1
6	031055		NUT, Lock, 1/4-20	6
7	075705		WELDMENT, Cord Reel Bracket	2
8	075702		HANGER, Controller, Rear-XW	1
9	068979		BASE, Junction Box Base	1
10	068976		RECEPTACLE, Hospital Grade	1
11	068980		COVER, Junction Box Cover	1
12	031097		SCREW, Sheet Metal, #6	2
13	068982		RELIEF, Strain	1
14			SCREW, #8 32 (Furnished with Receptacle)	2
15	075077		COVER, Controller Cover	1
16	031364		WASHER, Flat, 1/4"	6
17	031421		NUT, Lock, #10-24	4
18	031074		WASHER, Flat, 3/16"	4
19	068981		GROMMET	1
20	075749		ASSEMBLY, Cable LED	1

***Important Note**: To reduce the risk of electric shock, do not remove the cover.*

Unit is to be serviced by qualified personnel only.

For detailed label locations, see Figures 7-20.

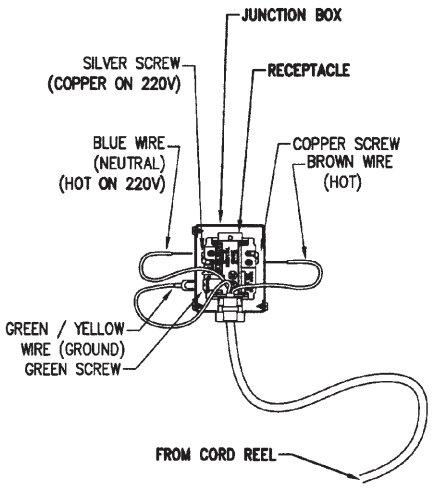


Notes:

1. Wrap excess cable and tie with cable tie (2) 5 each. Place bundles on top of controller before attaching top cover.
2. Cable tie nurse control cable with enough slack to permit full movement of slide.
3. Allow 1" of slack in cables for Trendelenburg movement on both sides.

Figure 7-18. HMC Plug and Wiring Diagram (After 5/1/00)

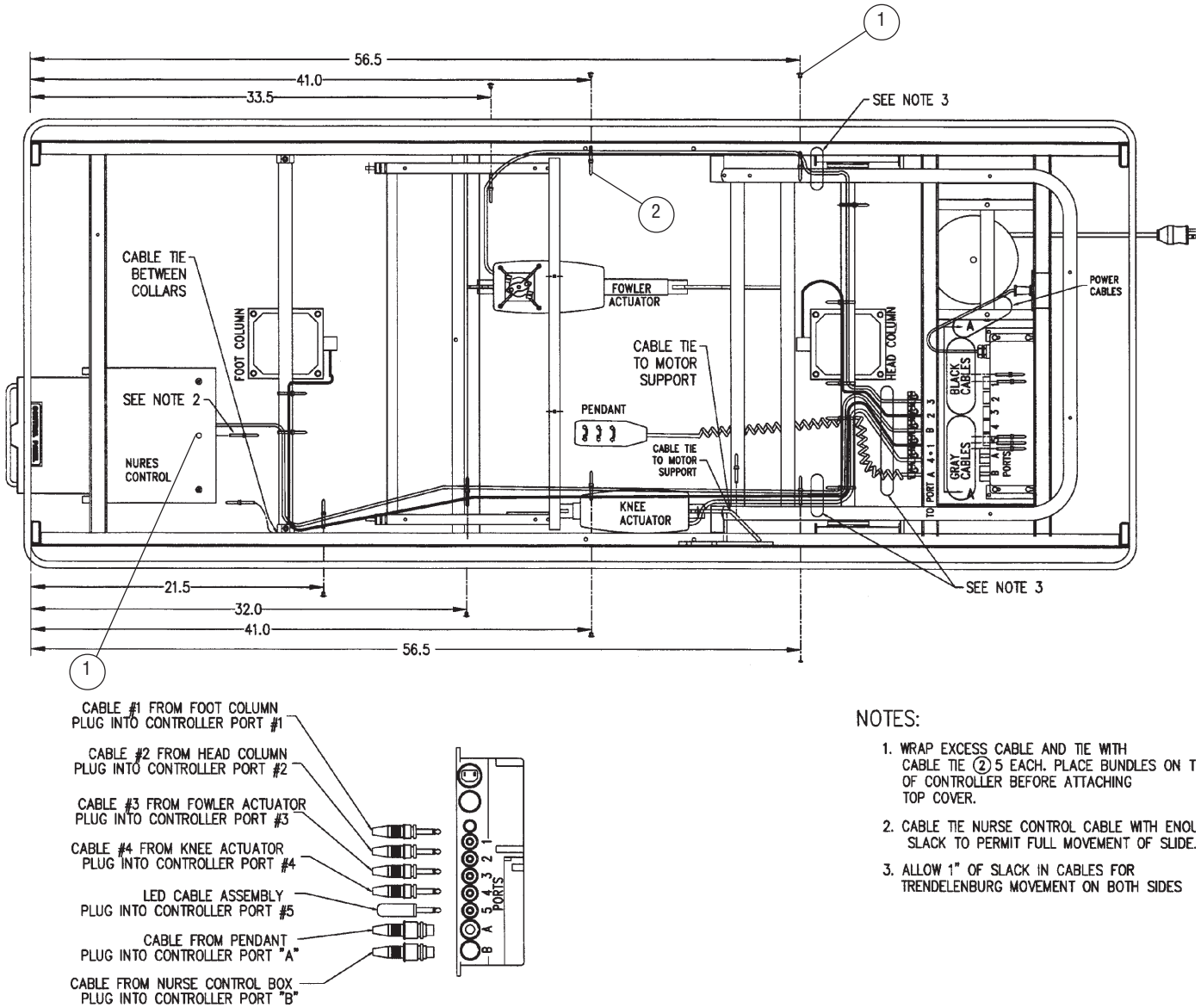
FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-18-			**HMC PLUG AND WIRING DIAGRAM (AFTER 5/1/00) .....**	**X**
1	068864		RELIEF, Strain	6
2	065403		TIE, Cable, (Large)	20
3	063031		BUTTON	7



***Important Note**: To reduce the risk of electric shock, do not remove the cover.*

Unit is to be serviced by qualified personnel only.

For detailed label locations, see Figures 7-20.



CABLE #1 FROM FOOT COLUMN
PLUG INTO CONTROLLER PORT #1
CABLE #2 FROM HEAD COLUMN
PLUG INTO CONTROLLER PORT #2
CABLE #3 FROM FOWLER ACTUATOR
PLUG INTO CONTROLLER PORT #3
CABLE #4 FROM KNEE ACTUATOR
PLUG INTO CONTROLLER PORT #4
LED CABLE ASSEMBLY
PLUG INTO CONTROLLER PORT #5
CABLE FROM PENDANT
PLUG INTO CONTROLLER PORT "A"
CABLE FROM NURSE CONTROL BOX
PLUG INTO CONTROLLER PORT "B"
B A 5 4 3 2 1
PORTS

NOTES:

1. WRAP EXCESS CABLE AND TIE WITH CABLE TIE (2) 5 EACH. PLACE BUNDLES ON T OF CONTROLLER BEFORE ATTACHING TOP COVER.
2. CABLE TIE NURSE CONTROL CABLE WITH ENOU SLACK TO PERMIT FULL MOVEMENT OF SLIDE.
3. ALLOW 1" OF SLACK IN CABLES FOR TRENDELENBURG MOVEMENT ON BOTH SIDES

Figure 7-19. HMC Plug and Wiring Diagram (Before 5/1/00)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-19-			**HMC PLUG AND WIRING DIAGRAM (BEFORE 5/1/00) .....**	**X**
1	063031		BUTTON	7
2	065403		TIE, Cable, (Large)	20
3	068864		RELIEF, Strain	6

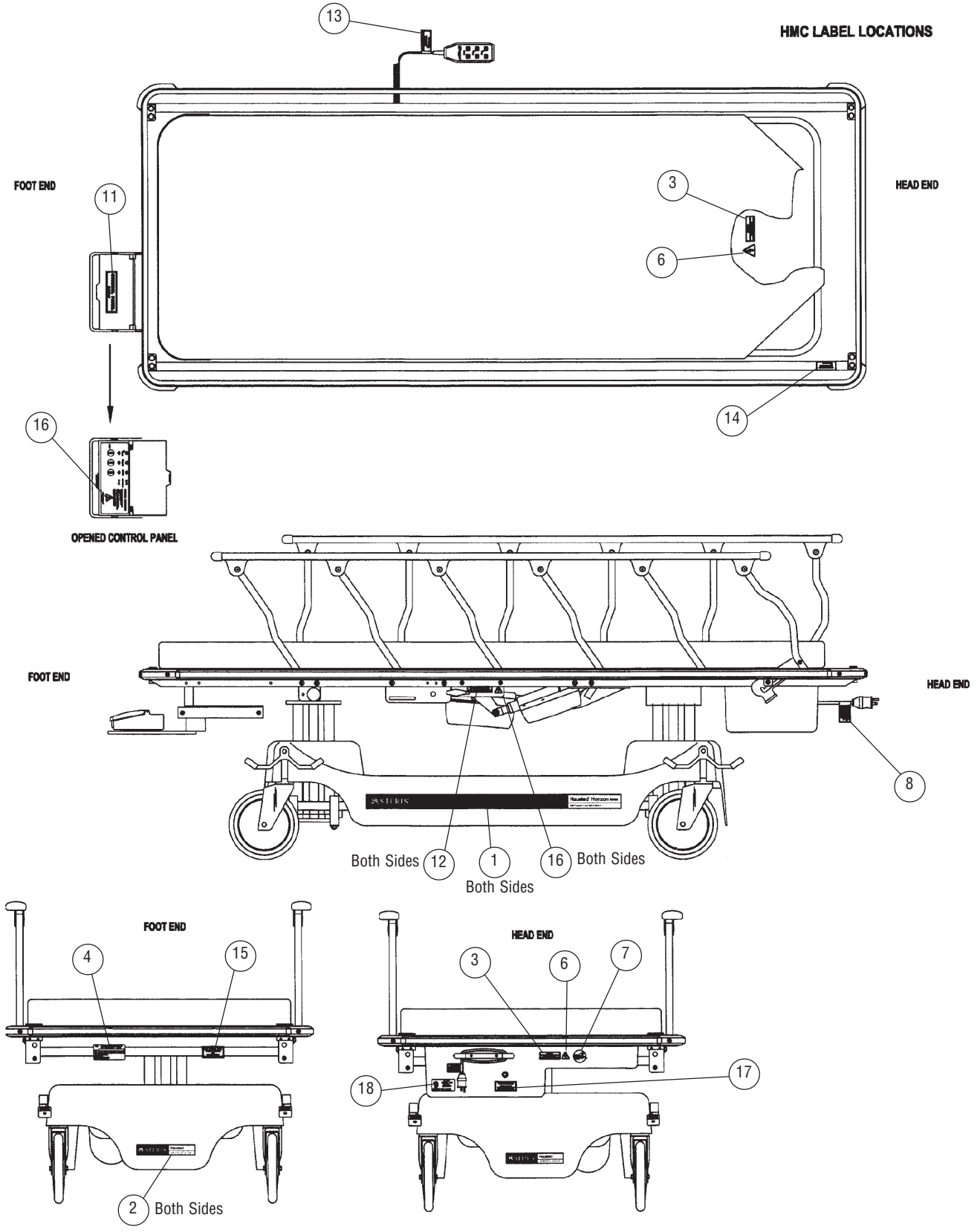
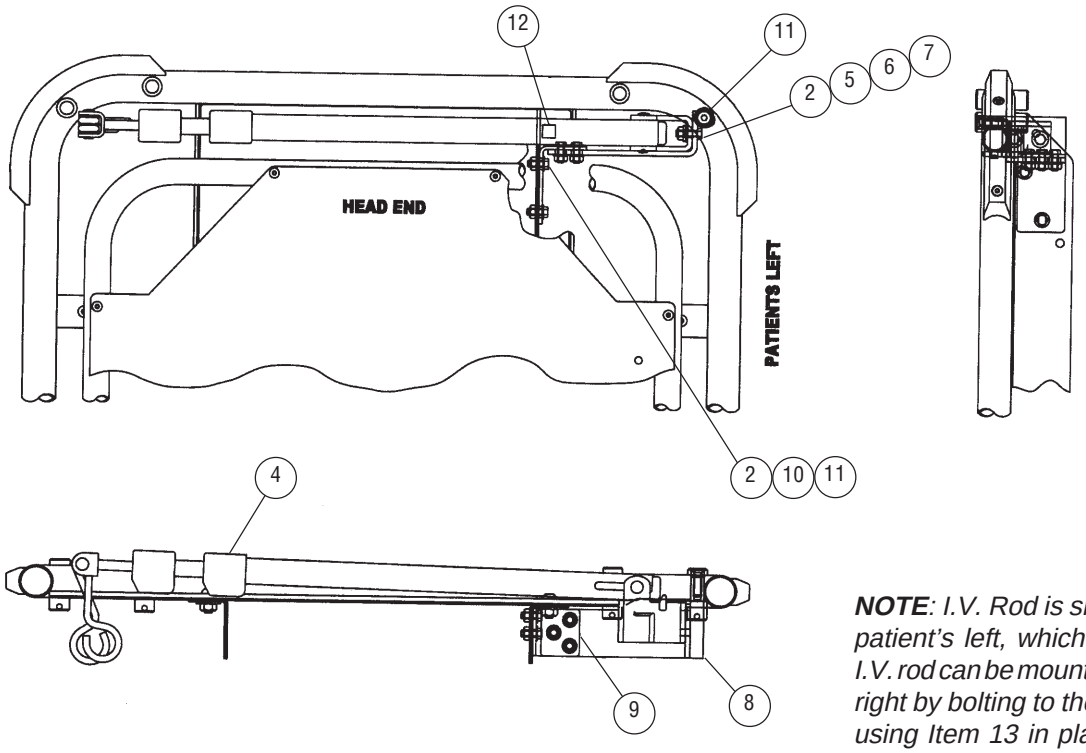


Figure 7-20. 4E2/4D2 – HMC Label Locations

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY	
7-20-			**4E2 – HMC LABEL LOCATIONS**	**X**	
			4D2 – HMC LABEL LOCATIONS		**X**
1	075836		LABEL, Side-Electric Stretcher	2	2
2	075831		LABEL, Base End	2	2
3	068855		LABEL, Electric Service	2	2
4	076127		LABEL, Serial Number, 110V Electric	1	–
	075475		LABEL, Serial Number, 230V Electric	–	1
5	031458		OVERLAY, Clear Mylar	1	1
6	075478		LABEL, Dangerous Voltage	2	2
7	075484		LABEL, Unplug Before Servicing	1	1
8	055025		LABEL, Hospital Grade Receptacle	1	–
9	066716		LABEL, Rail Release	4	4
10	066717		LABEL, Rail Operation	2	2
11	075035		LABEL, Control Pane	1	1
12	075040		LABEL, Emergency Release	2	2
13	075489		LABEL, Pendant	1	1
14	075589		LABEL, Maximum Weight, 625 Lbs.	1	1
15	063022		LABEL, Service	1	1
16	075479		LABEL, Hazardous Area	5	5
17	075748		LABEL, Low Battery	1	1
18	061815		LABEL, ETL Listing	1	–



***NOTE**: I.V. Rod is shown mounted on patient's left, which is standard. The I.V. rod can be mounted on the patient's right by bolting to the other side angle using Item 13 in place of Item 8 and Item 14 in place of Item 9.*

Accessory Number: 075590-00 I.V. Rod, Airglide Rail Tops, Pat Left

Accessory Number: 075591-00 I.V. Rod, Airglide Rail Tops, Pat Right

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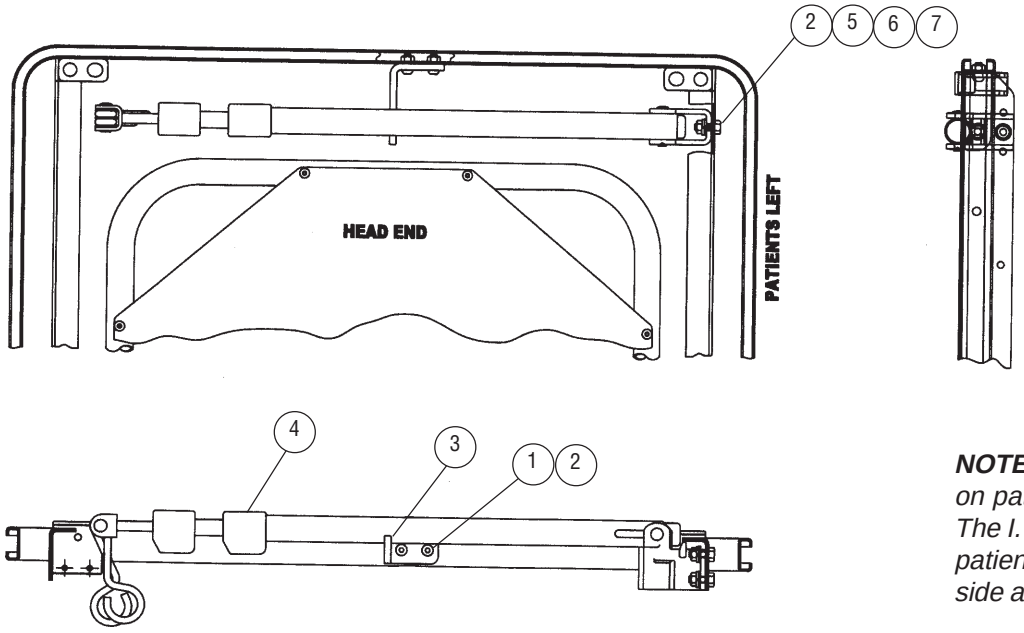
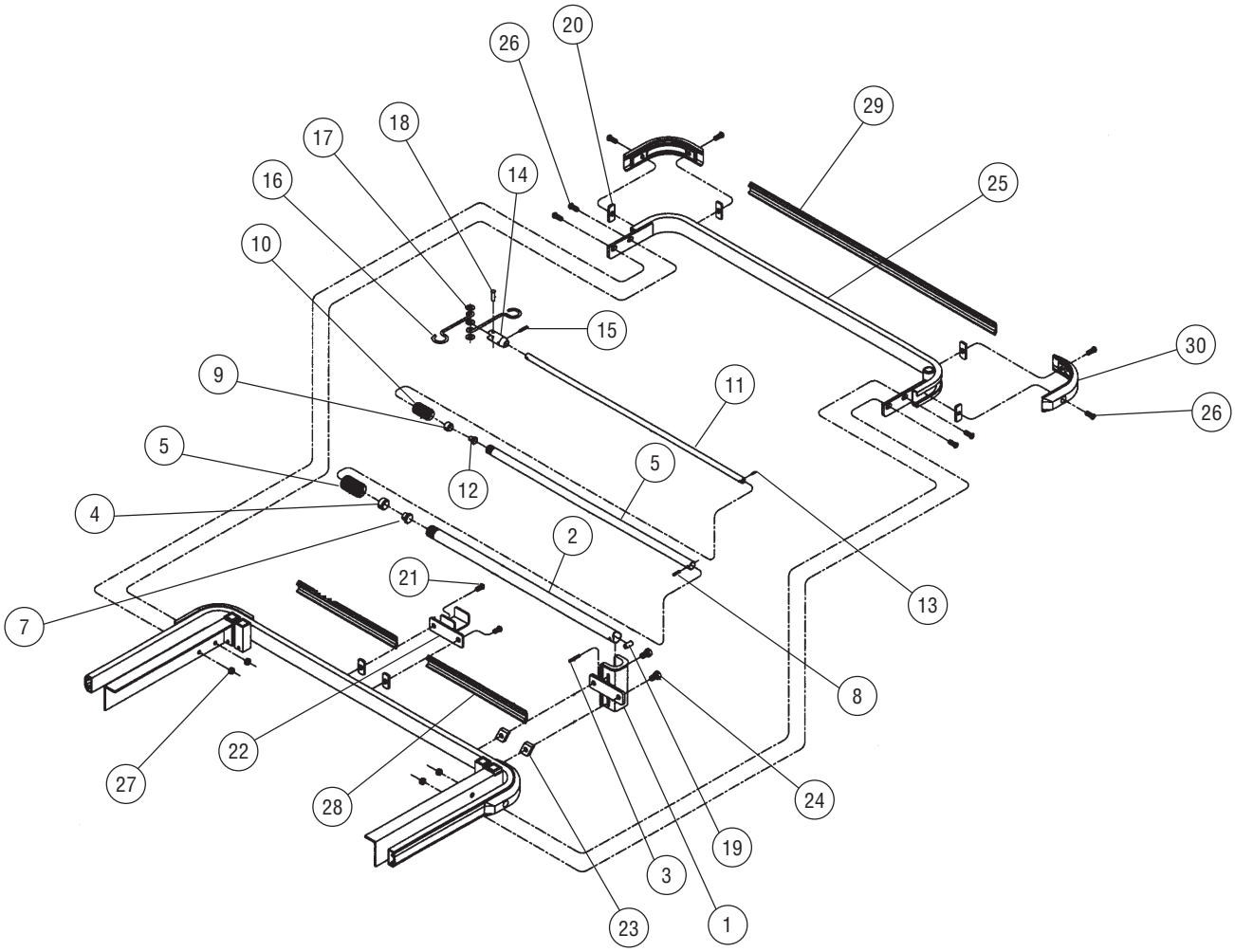
Accessory Number: 075543-00 I.V. Rod, Retracto Rail Tops



***NOTE**: I.V. Rod is shown mounted on patient's left, which is standard. The I.V. rod can be mounted on the patient's right by bolting to the other side angle.*

Figure 7-21. I.V. Rod Assembly (After 10/1/98)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY					
7-21-	**075590 00**		**I.V. ROD ASSEMBLY, AIRGLIDE RAIL TOP, PAT LEFT (AFTER 10/1/98)**	**X**					
	075591 00		**I.V. ROD ASSEMBLY, AIRGLIDE RAIL TOP, PAT RIGHT (AFTER 10/1/98)**	**X**					
	075543		**I.V. ROD ASSEMBLY, RETRACTO RAIL TOP (AFTER 10/1/98)**		**X**				
1	062038		SCREW, Button Head Cap, 1/4 -20 x 5/8" Long	–	2				
2	031055		NUT, Lock, 1/4 -20	7	4				
3	075568		SUPPORT, Bracket I.V. Rod Support	–	1				
4	075545		ASSEMBLY, Trigger Style I.V. Rod	1	1				
5	031137		SCREW, Hex Head Cap, 1/4 -20 x 3/4" Long	2	2				
6	031364		WASHER, Flat, 1/4"	2	2				
7	030923		WASHER, Lock, 3/8"	2	2				
8	075570		WELDMENT, I.V. Rod Mounting Bracket, Right	1	–				
9	075573		BRACKET, I.V. Rod Attachment-Right	1	–				
10	031076		WASHER, Flat, 5/16"	5	–				
11	031033		SCREW, Flat Socket Head Cap, 5/16 -18 x 1.0" Long	1	–				
12	061592		GROMMET, Self Adhesive	1	–				
13	075575		WELDMENT, , I.V. Rod Mounting Bracket, Left	–	–				
14	075576		BRACKET, I.V. Rod Attachment, Left	–	–				



3 section mounted I.V. rod assemblies

Figure 7-22. HMC I.V. Rod Assembly (Before 10/1/98)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-22-	**066021**		**HMC I.V. ROD ASSEMBLY (BEFORE 10/1/98) .....**	**X**
1	066002		ASSEMBLY, Hinge	1
2	066012		TUBE, Outside	1
3	031438		PIN, Spring, 3/16" x 1-1/4"	1
4	066014		BUSHING, Large Screw Collar Squeeze	1
5	066013		COLLAR, Large Screw	1
6	066016		TUBE, Large Slide	1
7	066015		GLIDE, Outside Cap	1
8	031314		PIN, Spring, 3/16" x 3/4"	1
9	030209		BUSHING, Screw Collar Squeeze	1
10	030207		Screw Collar	1
11	066017		TUBE, Small Slide	1
12	030176		GLIDE, Inside Cap	1
13	065605		PIN, Spring, 1/8" x 1/2"	1
14	062328		CAP, Top Ear	1
15	031110		PIN, Spring, 3/16" x 7/8"	1
16	062326		HOOK, Bag	2
17	031100		5/16 ID x 3/4 OD WASHER, Nylon	3
18	062329		RIVET, Tubular Rivet	1
19	066734		SPACER, Pin Spacer	1
20	031455		NUT, Weldment, 1/4-20	6
21	031325		SCREW, Button Head Cap, 1/4-20 x 1/2" Long	2
22	066006		ASSEMBLY, I.V. Rod Stop	1
23	066018		NUT, Channel, 5/16-28	2
24	066022		SCREW, Hex Head Cap, 5/16-28 x 1/2" Long	2
25	066023	*	WELDMENT, Bumper Guard	1
26	061195		SCREW, Button Head Socket, 1/4-20 x 5/8" Long	8
27	031055		NUT, Lock, 1/4-20	4
28	068152		EXTRUSION, Short Bumper, Gray	2
29	13193D		EXTRUSION, Short Bumper, Red	2
	13193H		EXTRUSION, Short Bumper, Blue	2
	13193X		EXTRUSION, Short Bumper, Green	2
	068153		EXTRUSION, Long Bumper, Gray	1
30	13193R		EXTRUSION, Long Bumper, Red	1
	13193S		EXTRUSION, Long Bumper, Blue	1
	13193T		EXTRUSION, Long Bumper, Green	1
	067958		BUMPER, Corner	2

***NOTE**: The "O" suffix on the part numbers marked with an " * " designate part numbers for the chrome/stainless units (Model 4E2 DPA-SS). For powder coated units (Model 4E2 DPA-PC), the "O" suffix should be relace with a "P" suffix. (Example: Item 25 for a powder coated unit 4E2 DPA-PC, would become P66023).*

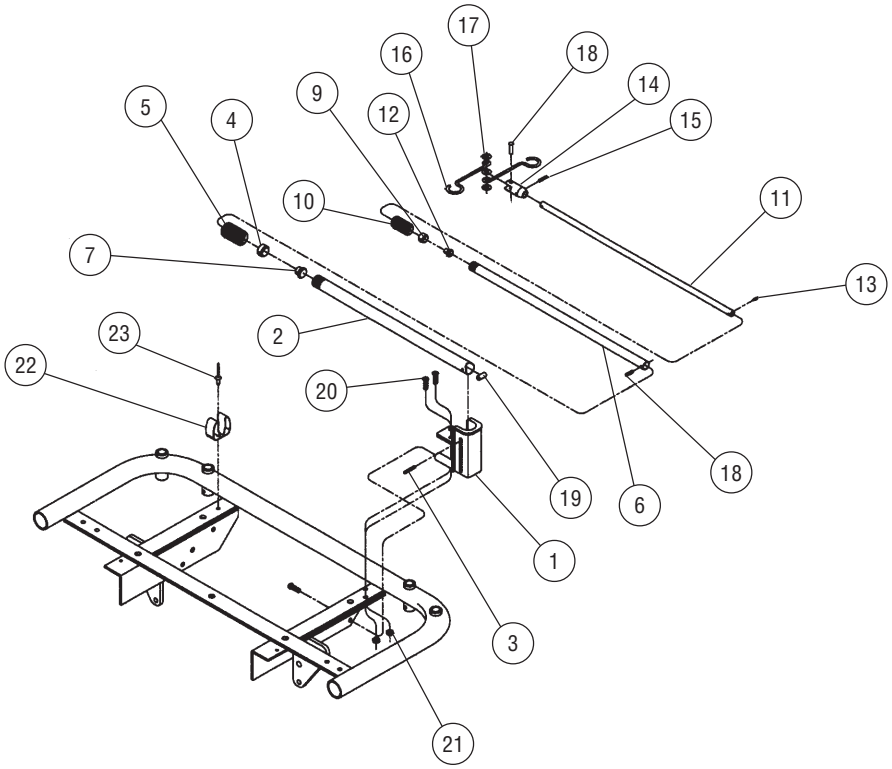
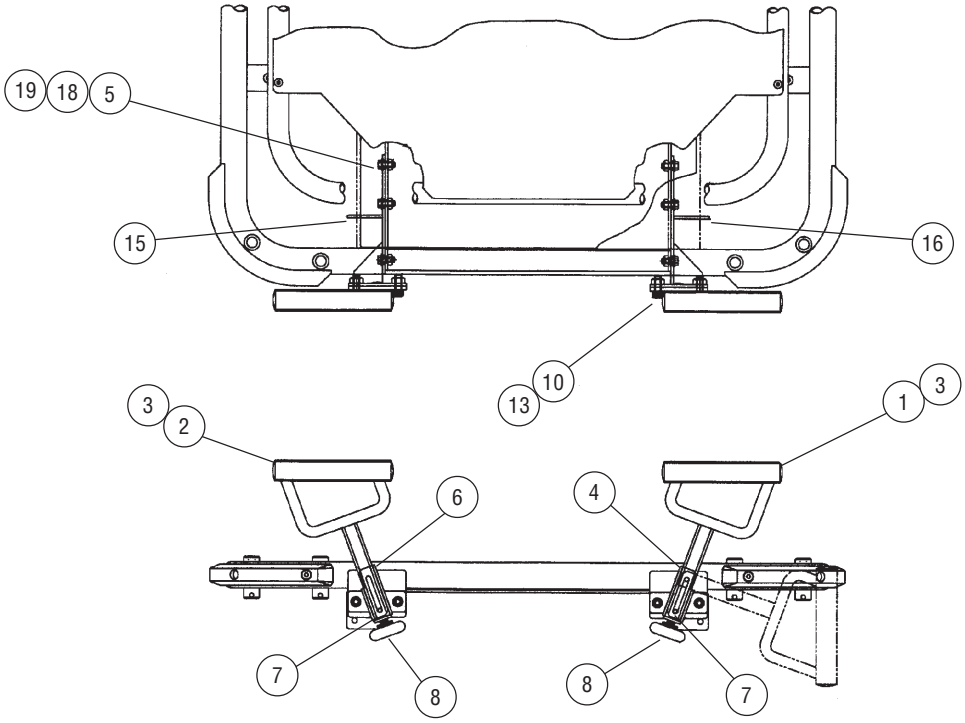


Figure 7-23. DPA I.V. Rod Assembly (Before 10/1/98)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-23-	**066725**		**DPA I.V. ROD ASSEMBLY (BEFORE 10/1/98)**	**X**
1	066727		ASSEMBLY, I.V. Rod Support and Mount	1
2	066731		TUBE, Short Outside	1
3	031438		PIN, Spring, 3/16" x 1-1/4"	1
4	066014		BUSHING, Large Screw Collar Squeeze	1
5	066013		COLLAR, Large Screw	1
6	066732		TUBE, Short Slide	1
7	066015		GLIDE, Outside Cap	1
8	031314		PIN, Spring, 3/16" x 3/4"	1
9	030209		BUSHING, Screw Collar Squeeze	1
10	030207		COLLAR, Screw	1
11	066733		TUBE, Short Inside	1
12	030176		GLIDE, Inside Cap	1
13	065605		PIN, Spring, 1/8" x 1/2"	1
14	062328		CAP, Top Ear	1
15	031110		PIN, Spring, 3/16" x 7/8"	1
16	062327		HOOK, Bag	2
17	031100		WASHER, Nylon, 5/16" I.D. x 3/4" O.D.	3
18	062329		RIVET, Tubular	1
19	066734		SPACER, I.V. Rod Pin	1
20	062038		SCREW, Button Head Socket, 1/4-20 x 3/4" long	3
21	031055		NUT, Lock, 1/4-20	2
22	062008		CLIP, Broom	1
23	000794		RIVET, Pop, 3/16" x 1/2"	1



Accessory Number: 075665-00 Push Handles – Airglide Tops

Accessory Number: 075656-00 Push Handles – Retracto Rail Tops

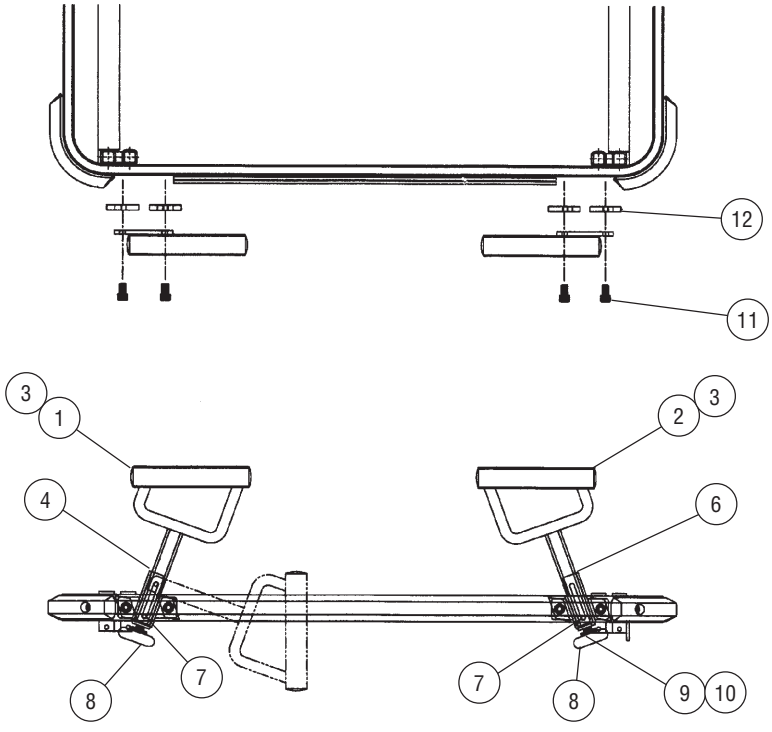
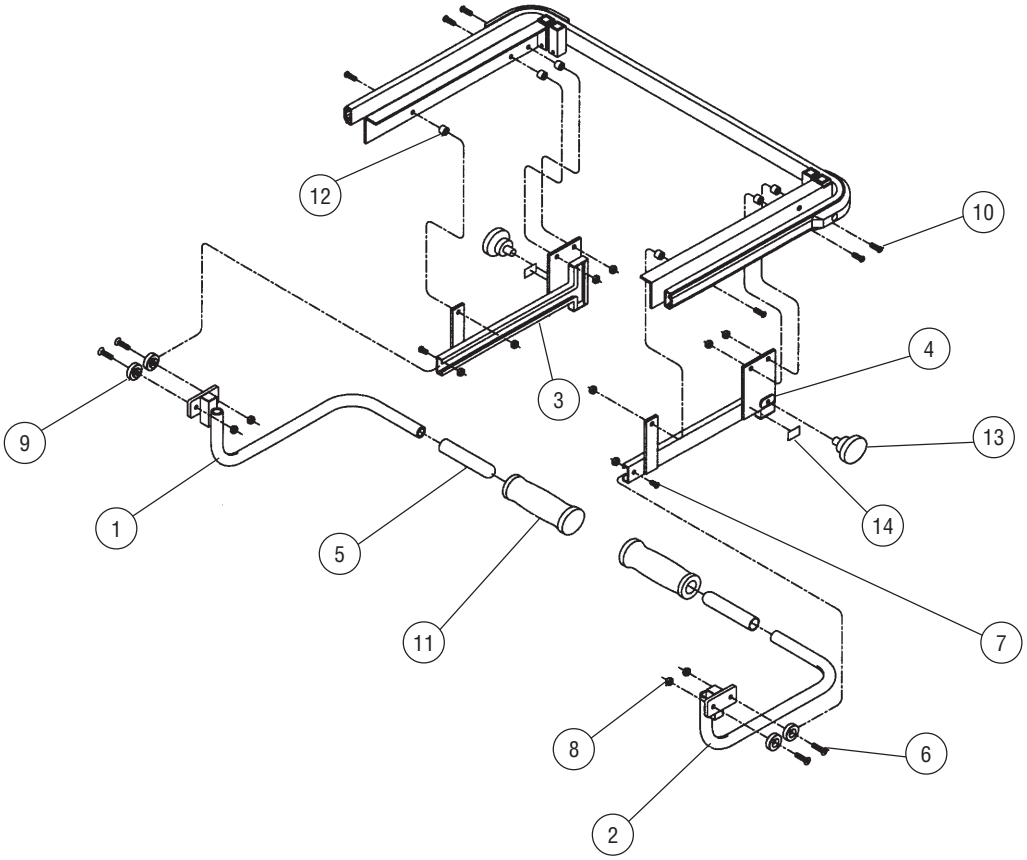


Figure 7-24. Push Bar Assembly After 6/1/99)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY	
7-24-	**075665 00**		**PUSH BAR ASSEMBLY, AIRGLIDE RAIL TOP (AFTER 6/1/99)**	**X**	
	075656 00		**PUSH BAR ASSEMBLY, RETRACTO RAIL TOP (AFTER 6/1/99)**		**X**
1	065631		ASSEMBLY, Push Handle A	1	1
2	075642		ASSEMBLY, Push Handle B	1	1
3	075637		• WELDMENT, Push Handle	1	1
4	075633		• BRACKET, Hinge, A	1	1
5	031076		• WASHER, Flat, USS, 1/4"	8	–
6	075734		• BRACKET, Hinge, B	1	1
7	031118		• PIN, Spring, 3/16" x 1"	1	1
8	075643		• BUMPER, 1-3/4 Diameter	1	1
9	031364		• WASHER, Flat, 1/4"	2	1
10	031055		• NUT, Lock, 1/4-20	1	1
11	075657		SCREW, Socket Head Cap, 5/16-18 x 1/2" Long	4	1
12	066018		NUT, Channel, 5/16-18	4	1
13	035192		SCREW, Socket Head Cap, 5/16-18 X 3/4" Long	4	1
14	031956		NUT, Lock, 15/16"	4	1
15	P75646		WELDMENT, Bracket A	1	1
16	P75651		WELDMENT, Bracket B	1	1
17	P75652		BARS, Connecting Bar Push, E.W.	1	1
18	068786		SCREW, Hex Head Cap, 1/4-20 x 5/8" Long	8	1

Items 3-10 are included in Items 1 and 2.



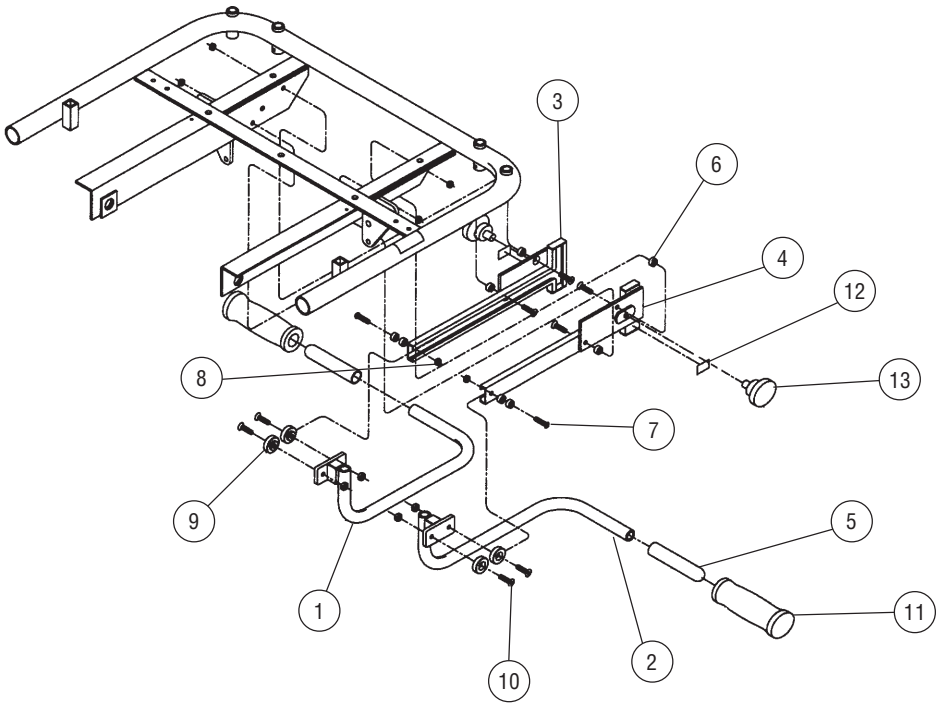
***NOTE**:*

1. Apply petroleum lubricant to the inside of the channels.

2. Apply laquer to the inside of Items 5 & 11.

Figure 7-25. HMC Push Bar Assembly (Before 6/1/99)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-25-	**068826**		**HMC PUSH BAR ASSEMBLY (BEFORE 6/1/99)**	**X**
1	068828		WELDMENT, Push Handle, Left	1
2	068827		WELDMENT, Push Handle, Right	1
3	068831		CHANNEL, Push Handle, Left	1
4	068839		CHANNEL, Push Handle, Right	1
5	067144		GRIP, Push Bar Hand	2
6	066825		SCREW, Flat Head Cap, 1/4-20 x 1.0" Long	4
7	031327		SCREW, Button Head Socket, 1/4-20 x 1/2" Long	2
8	031055		NUT, Lock, 1/4 "	12
9	068663		GLIDE, Push Bar	4
10	062038		SCREW, Button Head Socket, 1/4-20 x 3/4" long	6
11	068936		GRIP, Push Handle Comfort	2
12	066237		SPACER	6
13	068879		LABEL, Lock	2
14	068878		KNOB, Thread, 1/4-20 x 1.0" Long	2



***NOTE**:*

1. Apply petroleum lubricant to the inside of the channels.

2. Apply laquer to the inside of Items 5 & 11.

Figure 7-26. DPA Push Bar Assembly (Before 6/1/99)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-26-	**068699**		**DPA PUSH BAR ASSEMBLY (BEFORE 6/1/99) .....**	**X**
1	068657		WELDMENT, Push Bar Handle, Left	1
2	068661		WELDMENT, Push Bar Handle, Right	1
3	068648		WELDMENT, Push Bar Channel, Left	1
4	068647		WELDMENT, Push Bar Channel, Right	1
5	067144		GRIP, Push Bar Hand	2
6	066649		BUSHING, Link	8
7	031327		SCREW, Button Head Socket, 1/4-20 x 1.0" Long	2
8	031055		NUT, Lock, 1/4-20	12
9	068663		GLIDE, Push Bar	4
10	066925		SCREW, Flat Head Cap, 1/4-20 x 1.0" Long	8
11	068936		GRIP, Push Handle Comfort	2
12	068879		LABEL, Lock	2
13	068878		KNOB, Thread, 1/4-20 x 1.0"	2

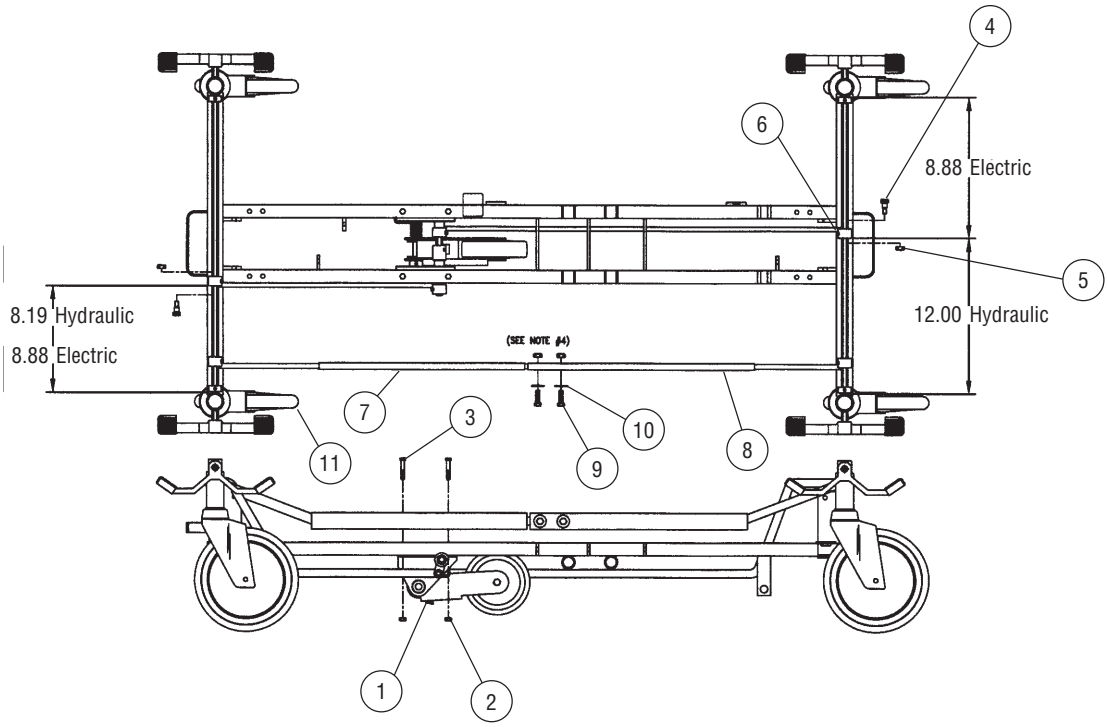


Figure 7-27. Fifth Wheel Assembly (After 9/1/99)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY	
7-27-	075798 00		**FIFTH WHEEL ASSEMBLY – HORIZON ELECTRIC (AFTER 9/1/99)**	X	
	075797 00		**FIFTH WHEEL ASSEMBLY – HORIZON HYDRAULIC (SHOWN) (AFTER 9/1/99)**		X
1	075796		ASSEMBLY, Sub	–	2
2	031055		NUT, Lock, 1/4-20	4	4
3	031006		SCREW, Hex Head Cap, 1/4-20 x 1 1/4" Long	4	4
4	065807		BOLT, Shoulder, 3/8" x 3/8"	2	2
5	031057		NUT, Lock, 5/16"	4	4
6	062684		CAM	2	2
7	075788		ROD, Brake, Foot End	1	1
8	075786		ROD, Brake, Head End	1	1
9	031012		SCREW, Hex Head Cap, 5/16-18 x 1.00" Long	2	2
10	031080		WASHER, Flat, 5/16"	2	2
11	062672		CASTER, Tente, Brake	1	1
12	065799		ASSEMBLY, Sub-, Electric	1	–
			NOTE: The hydraulic version of the fifth wheel shown, use Item 12 in place of Item 1 and locate cams as shown in drawing.		

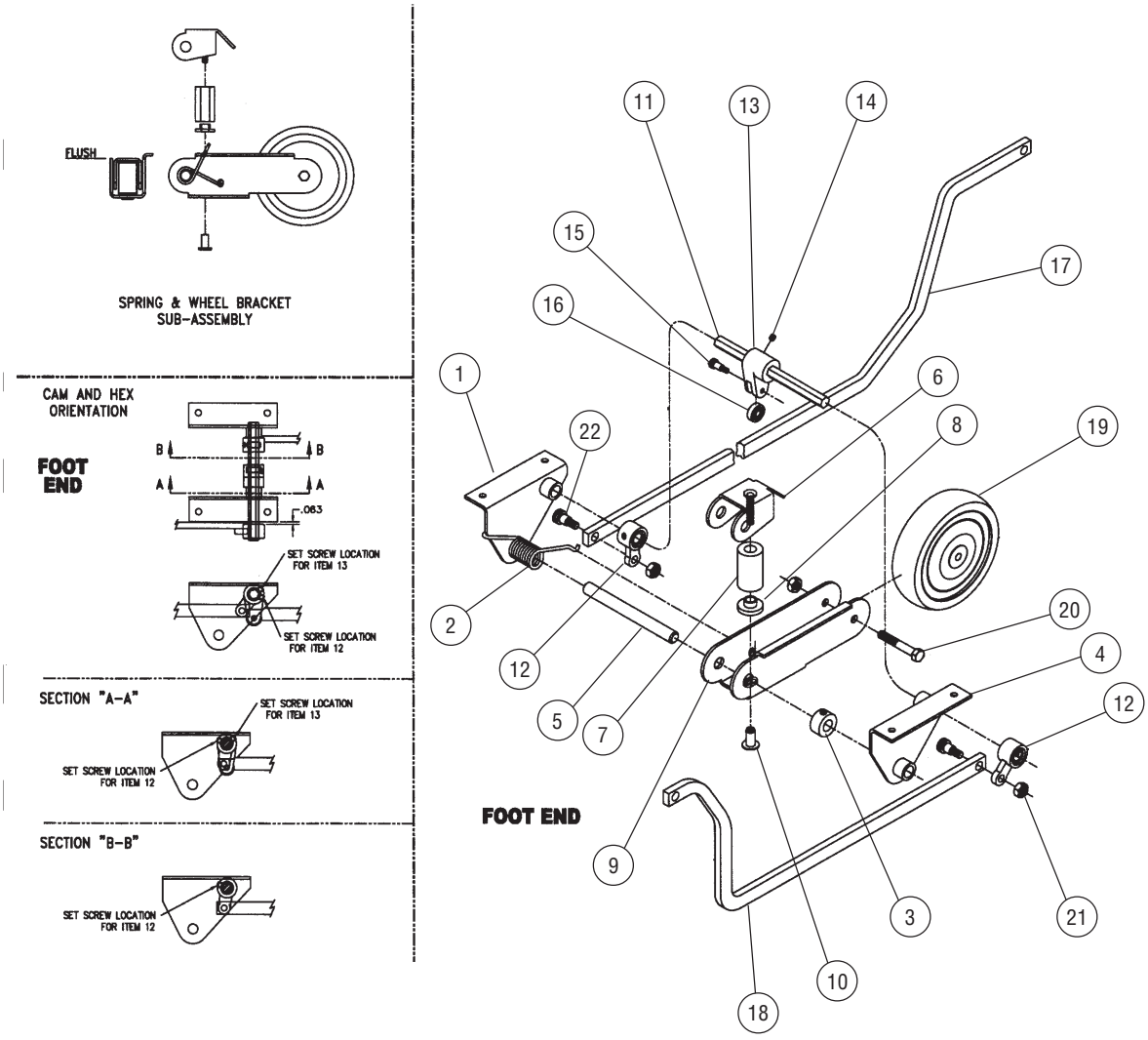


Figure 7-28. Fifth Wheel Assembly (After 9/1/99)

FIG. & ITEM NO.	PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY					
7-28-	**075799**	**00**		**FIFTH WHEEL SUB-ASSEMBLY– HORIZON ELECTRIC (AFTER 9/1/99)**	**X**					
	075796	**00**		**FIFTH WHEEL SUB-ASSEMBLY – HORIZON HYDRAULIC (SHOWN) (AFTER 9/1/99)**		**X**				
1	075775			WELDMENT, Mounting Bracket, Left Hand	1	1				
2	075771			SPRING, Torsion	1	1				
3	011422			COLLAR	1	1				
4	075776			WELDMENT, Mounting Bracket-Right Hand	1	1				
5	075780			ROD, Pivot	–	1				
6	075778			WELDMENT, Upper Bracket	1	1				
7	075793			SPRING, Urethane	1	1				
8	075779			SPRING, Retainer	1	1				
9	075772			BRACKET, Wheel	1	1				
10	068154			NUT, Spoke	1	1				
11	075781			ROD, Hex	1	1				
12	062684			CAM	2	2				
13	075782			CAM, Auto Track	1	1				
14	067861			SCREW, Socket Set, 1/4-20 x 1/4" Long	1	1				
15	075794			BOLT, Shoulder 1/4 x 3/8	1	1				
16	075792			BEARING	1	1				
17	075783			LINK, Long	1	1				
18	075784			LINK, Short	–	1				
19	075785			WHEEL, 5th	1	1				
20	031334			SCREW, Hex Head Cap, 5/16-18 x 2" Long	1	1				
21	031057			NUT, Lock, 5/16-18	3	3				
22	065807			BOLT, Shoulder 3/8" x 3/8"	2	2				
23	076108			ROD, Pivot 6.5	1	–				
24	076107			LINK, Short, Electric	1	–				

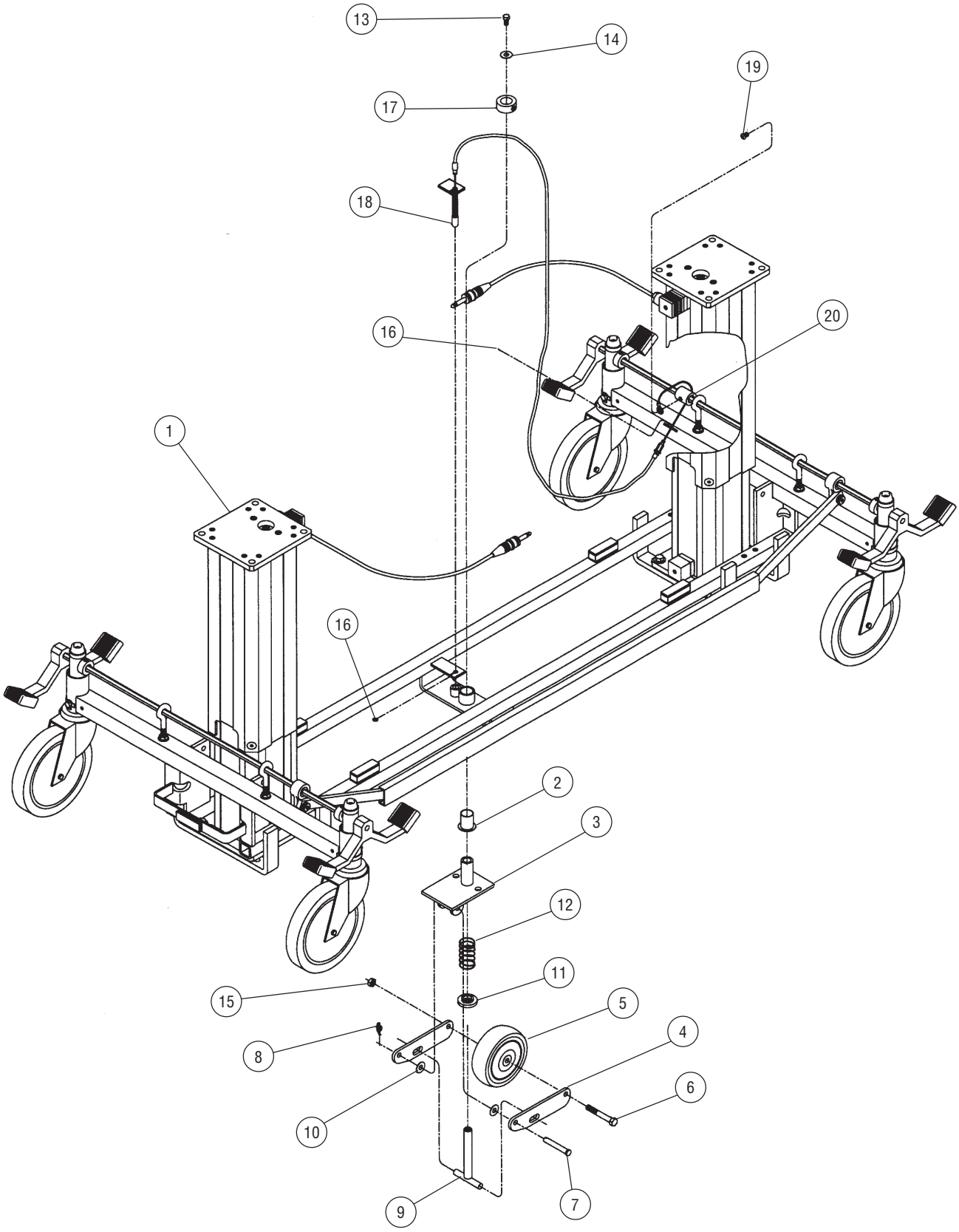


Figure 7-29. Fifth Wheel Assembly (Before 9/1/99)

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
7-29-	**068516**		**FIFTH WHEEL ASSEMBLY (BEFORE 9/1/99) .....**	**X**
1			ASSEMBLY, 4E2 Base	1
2	051308		NYLINER, Flange, 3/4" x 1-1/8"	1
3	068360		ASSEMBLY, Swivel Bracket	1
4	068429		PLATE, 5th Wheel Hinge	2
5	068415		WHEEL, 4th	1
6	068543		SCREW, Hex Head Cap, 5/16-18 x 2-1/4" Long	1
7	068419		PIN, Clevis, 5/16" x 2.0"	1
8	068417		CLIP, Rue, 5/16"	1
9	068540		ASSEMBLY, Spring Stop	1
10	065688		WASHER, Nylon, 5/1"	2
11	068416		SPACER	1
12	068173		SPRING, 5th Wheel	1
13	031004		SCREW, Hex Head Cap, 1/4-20 x 1/2" Long	1
14	031076		WASHER, 1/4"	1
15	031057		NUT, Lock, 5/16-18	1
16	062640		RING, Retaining	2
17	068464		COLLAR, 3/4"	1
18	068430		ASSEMBLY, 5th Wheel Cable	1
19	068544		SCREW, Button Head Socket, 1/4-20 x 3/8" Long	1
20	068373		TUBE, Cam	1